

## Historic, archived document

Do not assume content reflects current  
scientific knowledge, policies, or practices.





1  
Ag 84M  
Copy 3

United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Miscellaneous  
Publication  
Number 1437

~~DOI~~ S. 1

# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

JAN 30 '84

U.S. DEPT. OF AGRICULTURE  
NATL. AGRI. LIBRARY



## ABSTRACT

Burford, James B., Jane L. Thurman, and Ralph T. Roberts. 1983. Hydrologic data for experimental agricultural watersheds in the United States, 1974. U.S. Department of Agriculture Miscellaneous Publication No. 1437, 417 pp.

Hydrologic data from 98 agricultural watersheds for calendar year 1974 are summarized in this publication. Daily and monthly total precipitation and runoff together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 18th publication in this series.

**KEYWORDS:** Air temperature, hydrology data, hydrology research, precipitation, rainfall, runoff, streamflow, water data, watersheds.

U.S. DEPARTMENT OF AGRICULTURE  
Agricultural Research Service  
In Cooperation With  
State Agricultural Experiment Stations





United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Miscellaneous  
Publication  
Number 1437

# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

Compiled by  
JAMES B. BURFORD  
JANE L. THURMAN  
and  
RALPH T. ROBERTS

Water Data Laboratory  
Beltsville Agricultural Research Center  
Beltsville, Maryland 20705



## PREFACE

This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1974. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Department of Agriculture's Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other government agencies, university staff members, graduate students, private engineers, and those who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1974 or earlier, the findings are still valid and are used for further research on agricultural watersheds.

## CONTENTS

|  | Page |
|--|------|
| Publications of earlier data . . . . .   | 1    |
| Form of data presentation. . . . .   | 1    |
| Continuing watersheds. . . . .   | 1    |
| New watersheds . . . . .   | 12   |
| Watershed descriptions . . . . .   | 12   |
| Standard symbols for tabular data . . . . .  | 14   |
| Personnel responsible for data preparation . . . . .   | 14   |
| Additional publications by location. . . . .   | 14   |
| United States index map and related data . . . . .   | 19   |
| Location of experimental agricultural watersheds of the Agricultural Research<br>Service (1974) by land resource regions and major land resource areas of<br>the United States . . . . . | 20   |
| Legend for land resource regions and major land resource areas . . . . .   | 21   |
| Watershed data by location number and decimal paging [8.002-1 to 71.004-2, a<br>total of 394 data sheets] . . . . .  | 23   |
| Table 1.--Description of references 4-18 of "Hydrologic Data for Experimental Agricultural<br>Watersheds in the United States" . . . . .   | 2    |
| Table 2.--Index to information on experimental agricultural watersheds included<br>in references 1-18. . . . .   | 3    |
| Table 3.--Experimental agricultural watersheds, listed by State, locality,<br>and location number, under study during 1974 and included in this publication . . . . .                    | 22   |
| Table 4.--Watersheds, listed by State and locality, for which data were<br>previously included but are not in this publication . . . . .   | 22   |

The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom (center) according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.001-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the bottom (outside corner).

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1974 in this publication. Table 4 includes similar data on discontinued watersheds.

# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

This is the 18th publication in the series on hydrological data by the U.S. Department of Agriculture. The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 17 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 98 watersheds for 1974. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 95 watersheds; daily precipitation for 97 watersheds; mean daily discharge for 98 watersheds; applicable daily maximum and minimum air temperatures for 94 watersheds; and detailed information on 1 or more selected typical storm events for 82 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff; (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff; (3) description of watershed conditions at the time of the selected events; and (4) plottings of runoff hydrographs and rainfall histograms.

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, land management, and recommended area of application of the results are given as well as graphs and maps.

The first 11 publications in this series resulted from the cooperative efforts of several watershed research projects of the Agricultural Research Service and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data sheets, and submitted to the editing office for final review, assemblage, and publication.

A computer-oriented system, designed and developed by the Water Data Laboratory, is now used to produce camera copy for these publications. This is the seventh publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital computer form, are accepted by the system. The required data analyses and summaries are performed and the tabular listings and plottings are provided within and by the system. Narrative information is incorporated into the system as upper and lower case alphanumeric data using computer-compatible word-processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

## PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by the Agricultural Research Service. They are described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1974, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, 1262, 1330, 1370, 1380, 1383, 1412, 1420, and 1437. These 15 publications are listed in table 1 as references 4-18. These reference numbers have

been assigned to simplify citations to them in this and future publications. The first three looseleaf and the first eight miscellaneous publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1.—"Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Branch, 691 pages, 1957. Includes physical descriptions and land use of 334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.

Reference 2.—"Annual Maximum Flows From Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 330 pages, 1958. Includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.

Reference 3.—"Selected Runoff Events for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 374 pages, 1960. Includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, information on watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.

Copies of all these publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. They have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals, and similar foreign institutions and individuals when requested.

Table 2 lists in which of the 18 references data are included for each watershed and shows for which watersheds data are stored in the ARS Water Data Bank.

Table 3 summarizes where data for each watershed can be found in this 18th publication.

Table 4 lists the watershed units where studies were discontinued in 1973.

## FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes for some watersheds, daily precipitation, and mean daily discharge; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

## Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4-17, the tabular data begin at the top of the first page. On each page at the bottom outside corner is a sequential page number and the decimal paging system is shown at the bottom center.

The geographic location associated with each study, usually a city and State, and the local name and number of



Table 1.--Description of references 4-18 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

| Reference | For calendar year (19--) | Miscellaneous Publication No. | Year published (19--) | Total pages | Number of watersheds for which indicated data are given |   |                        |                 |  |
|-----------|--------------------------|-------------------------------|-----------------------|-------------|---|---|------------------------|-----------------|--|
|           |                          |                               |                       |             | Monthly precipitation and runoff                        | Annual maximum discharge and runoff for selected time intervals | Selected runoff events | New water-sheds | Daily precipitation, discharge, and/or temperature (max.-min.) |
| 4.....    | 56-59                    | 945                           | 63                    | 672         | 157   | 142   | 134                    | 45              | ...  |
| 5.....    | 60-61                    | 994                           | 65                    | 496         | 160   | 145   | 133                    | 24              | ...  |
| 6.....    | 62                       | 1070                          | 68                    | 447         | 164   | 155   | 136                    | 13              | 50   |
| 7.....    | 63                       | 1164                          | 70                    | 465         | 168   | 156   | 142                    | 9               | 57   |
| 8.....    | 64                       | 1194                          | 71                    | 460         | 163   | 163   | 143                    | 8               | 57   |
| 9.....    | 65                       | 1216                          | 72                    | 568         | 189   | 178   | 122                    | 22              | 60   |
| 10.....   | 66                       | 1226                          | 72                    | 399         | 198   | 185   | 106                    | 11              | 60   |
| 11.....   | 67                       | 1262                          | 73                    | 634         | 216   | 204   | 174                    | 26              | 62   |
| 12.....   | 68                       | 1330                          | 76                    | 542         | 174   | 174   | 116                    | 1               | 174  |
| 13.....   | 69                       | 1370                          | 79                    | 602         | 167   | 150   | 139                    | 5               | 167  |
| 14.....   | 70                       | 1380                          | 79                    | 515         | 153   | 139   | 113                    | 2               | 150  |
| 15.....   | 71                       | 1383                          | 80                    | 509         | 145   | 135   | 122                    | 1               | 145  |
| 16.....   | 72                       | 1412                          | 81                    | 433         | 131   | 117   | 98                     | 0               | 131  |
| 17.....   | 73                       | 1420                          | 82                    | 404         | 100   | 97  | 88                     | 1               | 100  |
| 18.....   | 74                       | 1437                          | 83                    | 417         | 98  | 95  | 82                     | 0               | 98   |

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/</sup>

| Water-<br>shed<br>ident.<br>code <sup>2/</sup> | Study location |       | Water-<br>shed<br>name-No. | Area<br>in<br>acres <sup>3/</sup> | Record Rev.<br>(19--) ref.<br>B <sub>4</sub> /E <sub>5</sub> No. <sub>5</sub> |    |    | Index to information<br>in reference <sup>1/</sup> -- |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|----------------------------|-----------------------------------|---|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                            |                                   |   |    |    | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 01001  | Arnot Forest   | NY    | W-1                        | 17.9                              | 41  | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 01002  | Arnot Forest   | NY    | W-4                        | 17.9                              | 41  | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 02002  | Cohoecton      | NY    | W-II                       | 13.8                              | 38  | 45 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 02003  | Cohoecton      | NY    | W-III                      | 24.2                              | 38  | 45 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 04001  | Freehold       | NJ    | W-I                        | 17.5                              | 38  | 43 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 04002  | Freehold       | NJ    | W-II                       | 32.9                              | 38  | 55 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 04003  | Freehold       | NJ    | W-III                      | 51.8                              | 38  | 43 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05001  | College Park   | MD    | W-1                        | 8.22                              | 39  | 54 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05002  | College Park   | MD    | W-2                        | 7.44                              | 39  | 54 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05003  | College Park   | MD    | W-3                        | 5.02                              | 39  | 55 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05004  | College Park   | MD    | W-4                        | 5.03                              | 39  | 55 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05005  | College Park   | MD    | W-5                        | 4.07                              | 39  | 54 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05006  | College Park   | MD    | W-6                        | 3.53                              | 40  | 62 | 06 | 01  | 02 | 03 | 04 | 05 | 06 |    |    |    |    |    |    |    |    |    |    |    |    |
| 05007  | College Park   | MD    | W-7                        | 3.52                              | 40  | 62 | 06 | 01  | 02 | 03 | 04 | 05 | 06 |    |    |    |    |    |    |    |    |    |    |    |    |
| 05008  | College Park   | MD    | W-8                        | 2.43                              | 40  | 55 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05009  | College Park   | MD    | W-9                        | 12.05                             | 40  | 55 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 05010  | College Park   | MD    | W-10                       | 3.04                              | 43  | 54 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 06001  | Hagerstown     | MD    | W-I                        | 46.3                              | 38  | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 06002  | Hagerstown     | MD    | W-II                       | 80.8                              | 38  | 47 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 07001  | Auburn         | AL    | W-I                        | 27.0                              | 45  | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 08001  | Vero Beach     | FL    | W-1                        | 49,915.                           | 51  | 73 | 06 | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 08002*   | Vero Beach     | FL    | W-2                        | (a)66,880.                        | 55  |    | 06 | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    | 13 | 14 | 15 | 16 | 17 | 18 |
| 08003*   | Vero Beach     | FL    | W-3                        | (b)12,224.                        | 55  |    | 06 | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    | 13 | 14 | 15 | 16 | 17 | 18 |
| 08004  | Vero Beach     | FL    | W-4                        | 3,970.                            | 59  | 73 |    |   |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 08005*   | Vero Beach     | FL    | W-5                        | (c)20,992.                        | 65  |    | 15 |   |    |    |    |    |    |    |    |    |    |    |    |    |    | 15 | 16 | 17 | 18 |
| 09001*   | Americus       | GA    | W-I                        | 22.8                              | 38  | 43 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 09002*   | Americus       | GA    | W-II                       | 42.8                              | 38  | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 09003*   | Americus       | GA    | W-III                      | 32.0                              | 38  | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 09004*   | Americus       | GA    | W-IV                       | 59.2                              | 38  | 43 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10001*   | Watkinsville   | GA    | W-1                        | 19.2                              | 39  |    | 07 | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 |    |    |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 11001  | High Point     | NC    | W.F.D.R.                   | 21,100.                           | 23  | 53 |    | 01  | 02 | 03 | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 11002  | High Point     | NC    | M.C.                       | 10,300.                           | 34  | 41 |    | 01  | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 11003  | High Point     | NC    | U.R.                       | 7,230.                            | 34  | 41 |    | 01  | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12001  | Statesville    | NC    | C-8                        | 5.12                              | 33  | 38 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12002  | Statesville    | NC    | W-23                       | 6.00                              | 33  | 38 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 13001  | Blacksburg     | VA    | W-II                       | 5.44                              | 39  | 51 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 13002  | Blacksburg     | VA    | W-III                      | 19.3                              | 39  | 67 |    | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 13003  | Blacksburg     | VA    | W-IV                       | 3.49                              | 51  | 67 |    | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 13004  | Blacksburg     | VA    | W-V                        | 6.08                              | 52  | 67 |    | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 13005  | Blacksburg     | VA    | W-VI                       | 7.70                              | 51  | 67 |    | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 13006*   | Blacksburg     | VA    | T.C.                       | 3,054.                            | 57  | 69 |    |   |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |
| 13007*   | Blacksburg     | VA    | C.C.                       | 786.                              | 57  |    |    |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 13008*   | Blacksburg     | VA    | B.C.                       | 893.                              | 57  |    | 08 |   |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 13009*   | Blacksburg     | VA    | P.C.                       | 182.                              | 58  | 69 | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |
| 13010*   | Blacksburg     | VA    | L.W.C.                     | 1,471.                            | 58  | 74 | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 13011*   | Blacksburg     | VA    | R.R.B.                     | 555.                              | 58  |    | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 13012*   | Blacksburg     | VA    | P.M.B.                     | 192.                              | 58  | 69 | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |
| 13013*   | Blacksburg     | VA    | C.R.                       | 2,023.                            | 59  | 69 | 10 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |
| 13014*   | Blacksburg     | VA    | F.C.                       | 389.                              | 60  | 69 | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |
| 13015*   | Blacksburg     | VA    | C.B.                       | 1,058.                            | 60  |    | 08 |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 14001  | Chatham        | VA    | W-I                        | 13.3                              | 38  | 48 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14002  | Chatham        | VA    | W-II                       | 16.1                              | 38  | 48 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14003  | Chatham        | VA    | W-III                      | 17.1                              | 38  | 48 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/--</sup>  
Continued

| Water-shed<br>ident.<br>code <sup>2/--</sup> | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres <sup>3/--</sup> | Record Rev.<br>(19--)<br>B <sub>4</sub> /E <sub>4</sub><br>No.<br>5/ |    | Index to information<br>in reference <sup>1/--</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|------------------------|-------------------------------------|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                        |                                     | 01   | 02 | 03   | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |    |    |
| 15001  | Staunton       | VA    | W-I                    | 390.                                | 48   | 55 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15002  | Staunton       | VA    | W-II                   | 2,430.                              | 48   | 55 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15003  | Staunton       | VA    | W-III                  | 6,144.                              | 48   | 55 |  | 01 | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16006*                                       | Klingerstown   | PA    | WE-38                  | 1,773.                              | 68   |    |  |    |    |    |    |    |    |    |    |    |    |    |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 17001*                                       | Edwardsville   | IL    | W-1                    | 27.22                               | 38   | 55 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 17002*                                       | Edwardsville   | IL    | W-2                    | 49.95                               | 38   | 55 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 17003*                                       | Edwardsville   | IL    | W-3                    | 12.55                               | 38   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 17004*                                       | Edwardsville   | IL    | W-4                    | 289.8                               | 38   | 55 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18001  | Elmwood        | IL    | WB-1                   | 1.28                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18002  | Elmwood        | IL    | WB-2                   | 2.28                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18003  | Elmwood        | IL    | WB-3                   | 2.61                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18004  | Elmwood        | IL    | WB-4                   | 2.77                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18005  | Elmwood        | IL    | WB-5                   | 1.93                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18006  | Elmwood        | IL    | WB-6                   | 2.41                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18007  | Elmwood        | IL    | WT-1                   | 2.02                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18008  | Elmwood        | IL    | WT-2                   | 1.88                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18009  | Elmwood        | IL    | WT-3                   | 2.40                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18010  | Elmwood        | IL    | WT-4                   | 2.06                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18011  | Elmwood        | IL    | WT-5                   | 2.76                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18012  | Elmwood        | IL    | WT-6                   | 5.35                                | 45   | 46 |  | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19001  | Lafayette      | IN    | W-1                    | 2.55                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19002  | Lafayette      | IN    | W-2                    | 2.23                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19003  | Lafayette      | IN    | W-4                    | 2.01                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19004  | Lafayette      | IN    | W-5                    | 2.87                                | 40   | 53 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19005  | Lafayette      | IN    | W-6                    | 2.79                                | 40   | 53 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19006  | Lafayette      | IN    | W-7                    | 1.96                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19007  | Lafayette      | IN    | W-8                    | 1.96                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19008  | Lafayette      | IN    | W-10                   | 2.06                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19009  | Lafayette      | IN    | W-11                   | 2.05                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19010  | Lafayette      | IN    | W-12                   | 3.37                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19011  | Lafayette      | IN    | W-13                   | 3.02                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19012  | Lafayette      | IN    | W-14                   | 2.85                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19013  | Lafayette      | IN    | W-15                   | 3.59                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19014  | Lafayette      | IN    | W-18                   | 3.24                                | 40   | 53 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19015  | Lafayette      | IN    | W-20                   | 2.64                                | 40   | 52 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19016  | Lafayette      | IN    | W-25                   | 3.52                                | 40   | 52 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19017  | Lafayette      | IN    | W-31                   | 1.64                                | 40   | 51 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19018  | Lafayette      | IN    | W-32                   | 1.83                                | 40   | 51 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19019  | Lafayette      | IN    | W-33                   | 3.44                                | 40   | 51 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19020  | Lafayette      | IN    | W-34                   | 3.17                                | 40   | 51 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20001  | Clarinda       | IA    | W-V                    | 3.25                                | 32   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20002  | Clarinda       | IA    | W-W                    | 1.97                                | 34   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20003  | Clarinda       | IA    | W-X                    | 1.97                                | 34   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20004  | Clarinda       | IA    | W-Y                    | 3.25                                | 32   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20005  | Clarinda       | IA    | W-Z                    | 3.12                                | 32   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 21001  | Iowa City      | IA    |                        | 1,930.                              | 24   |    | 07   | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 22001  | Shenandoah     | IA    | No. 1                  | 128,000.                            | 34   | 40 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22002  | Shenandoah     | IA    | No. 2                  | 67,200.                             | 34   | 40 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23001  | East Lansing   | MI    | A                      | 1.98                                | 41   | 59 |  | 01 | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23002  | East Lansing   | MI    | B                      | 1.35                                | 41   | 59 |  | 01 | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23003  | East Lansing   | MI    | W                      | 1.65                                | 41   | 59 |  | 01 | 02 |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24001  | Bethany        | MO    | Pa-A                   | 2.03                                | 34   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24002  | Bethany        | MO    | Pa-B                   | 5.56                                | 32   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24003  | Bethany        | MO    | Pa-C                   | 1.97                                | 37   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24004  | Bethany        | MO    | D-1                    | 7.51                                | 34   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24005  | Bethany        | MO    | D-2                    | 8.03                                | 34   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24006  | Bethany        | MO    | D-3                    | 4.48                                | 32   | 42 |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24007  | Bethany        | MO    | I-58                   | 2.12                                | 33   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24008  | Bethany        | MO    | IJ-1                   | 2.13                                | 33   | 42 |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

See footnotes at end of table.



Table 2.--Index to information on experimental agricultural watersheds included in references 1-181/--  
Continued

| Water-shed<br>ident.<br>code | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres | Record |    | Rev.<br>ref.<br>No. | Index to information<br>in reference 1/-- |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|----------------|-------|------------------------|---------------------|--------|----|---------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                              | Town           | State |                        |                     | B      | E  |                     | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 25001*                       | McCredie       | MO    | S.R.W.                 | 153.                | 41     |    | 07                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 25002                        | McCredie       | MO    | No.2                   | 44.3                | 51     | 63 | 07                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |
| 26001*                       | Coshocton      | OH    | 102                    | 1.26                | 37     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 26002*                       | Coshocton      | OH    | 104                    | 1.33                | 37     | 46 |                     | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26003*                       | Coshocton      | OH    | 129                    | 2.71                | 38     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |
| 26004*                       | Coshocton      | OH    | 135                    | 2.69                | 38     | 69 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26005*                       | Coshocton      | OH    | 130                    | 1.63                | 38     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26006*                       | Coshocton      | OH    | 107                    | 2.59                | 38     | 46 |                     | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26007*                       | Coshocton      | OH    | 131                    | 2.21                | 38     | 69 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26008*                       | Coshocton      | OH    | 132                    | 0.62                | 48     | 69 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26009*                       | Coshocton      | OH    | 134                    | 0.92                | 38     | 46 |                     | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26010*                       | Coshocton      | OH    | 123                    | 1.37                | 39     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 26011*                       | Coshocton      | OH    | 115                    | 1.61                | 39     | 70 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26012*                       | Coshocton      | OH    | 127                    | 1.65                | 49     | 70 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26013*                       | Coshocton      | OH    | 109                    | 1.69                | 38     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 26014*                       | Coshocton      | OH    | 103                    | 0.65                | 39     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26015*                       | Coshocton      | OH    | 110                    | 1.27                | 39     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26016*                       | Coshocton      | OH    | 113                    | 1.45                | 39     | 76 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26017*                       | Coshocton      | OH    | 118                    | 1.96                | 40     | 76 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26018*                       | Coshocton      | OH    | 111                    | 1.18                | 39     | 70 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26019*                       | Coshocton      | OH    | 121                    | 1.42                | 39     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26020*                       | Coshocton      | OH    | 106                    | 1.56                | 39     | 72 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |
| 26021*                       | Coshocton      | OH    | 188                    | 2.05                | 39     | 70 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26022                        | Coshocton      | OH    | 124                    | 2.07                | 39     | 47 |                     | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26023*                       | Coshocton      | OH    | 185                    | 7.40                | 39     | 72 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26024*                       | Coshocton      | OH    | 187                    | 7.20                | 41     | 72 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26025*                       | Coshocton      | OH    | 192                    | 7.59                | 39     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26026*                       | Coshocton      | OH    | 172                    | 43.6                | 39     | 72 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 26027*                       | Coshocton      | OH    | 169                    | 29.0                | 40     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26028*                       | Coshocton      | OH    | 177                    | 75.6                | 40     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    |    |    |    |    |
| 26029*                       | Coshocton      | OH    | 183                    | 74.2                | 38     | 63 | 06                  | 01  | 02 | 03 |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |
| 26030*                       | Coshocton      | OH    | 196                    | 303.                | 37     |    | 06                  | 01  | 02 | 03 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 26031*                       | Coshocton      | OH    | 10                     | 122.                | 39     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26032*                       | Coshocton      | OH    | 5                      | 349.                | 40     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26033*                       | Coshocton      | OH    | 92                     | 920.                | 39     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26034*                       | Coshocton      | OH    | 94                     | 1,520.              | 39     | 71 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26035*                       | Coshocton      | OH    | 95                     | 2,570.              | 39     | 72 | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |
| 26036*                       | Coshocton      | OH    | 97                     | 4,580.              | 37     | 70 | 06                  | 01  | 02 | 03 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 26037                        | Coshocton      | OH    | 994                    | 17,400.             | 36     |    | 06                  | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |
| 26038*                       | Coshocton      | OH    | 174                    | 52.8                | 60     | 77 | 06                  |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 26039*                       | Coshocton      | OH    | 194                    | 187.                | 60     | 77 | 06                  |   |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 26040*                       | Coshocton      | OH    | 182                    | 69.6                | 64     |    |                     |   |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 |    |    |    |    |    |
| 26041*                       | Coshocton      | OH    | 166                    | 79.2                | 67     |    |                     |   |    |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 |    |    |    |
| 27001                        | Hamilton       | OH    | W-1                    | 187.                | 38     | 44 |                     | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27002                        | Hamilton       | OH    | W-II                   | 16.2                | 38     | 44 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27003                        | Hamilton       | OH    | W-III                  | 28.8                | 38     | 44 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27004                        | Hamilton       | OH    | W-IV                   | 20.3                | 38     | 44 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28001                        | Zanesville     | OH    | C.W.                   | 2.55                | 34     | 45 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28002                        | Zanesville     | OH    | P.W.                   | 3.57                | 34     | 45 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28003                        | Zanesville     | OH    | W.W.                   | 2.23                | 34     | 45 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 29001                        | Colby          | WI    | W-1                    | 345.                | 49     | 66 |                     | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |    |    |    |    |    |    |    |    |    |
| 30001                        | Coon Valley    | WI    | No. 1                  | 49,400.             | 34     | 40 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 30002                        | Coon Valley    | WI    | No. 2                  | 49,344.             | 34     | 40 |                     | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 31001*                       | Fennimore      | WI    | W-1                    | 330.                | 38     | 69 | 07                  | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 31002*                       | Fennimore      | WI    | W-2                    | 22.8                | 38     | 68 | 07                  | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 31003*                       | Fennimore      | WI    | W-3                    | 52.5                | 38     | 69 | 07                  | 01  | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 31004*                       | Fennimore      | WI    | W-4                    | 171.                | 38     | 68 | 07                  | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/</sup>--  
Continued

| Water-<br>shed<br>ident.<br>code <sup>2/</sup> | Study location |       | Water-<br>shed<br>name-No. | Area<br>in<br>acres <sup>3/</sup> | Record Rev.<br>(19--)<br>B <sub>4/</sub> E <sub>4/</sub> No.<br>5/ |    |    | Index to information<br>in reference <sup>1/</sup> -- |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|----------------------------|-----------------------------------|--|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                            |                                   |  |    |    | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 32001  | La Crosse      | WI    | U.P.W.                     | 2.41                              | 33   | 55 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 32002  | La Crosse      | WI    | U.C.W.                     | 2.24                              | 33   | 46 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 32003  | La Crosse      | WI    | C.W.                       | 2.71                              | 37   | 63 | 07 | 01  | 02 |    |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |
| 32004  | La Crosse      | WI    | C.W.A.                     | 2.95                              | 52   | 63 | 07 | 01  | 02 |    |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |
| 32005  | La Crosse      | WI    | E-3                        | 1.01                              | 33   | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 32006  | La Crosse      | WI    | A-4                        | 2.21                              | 33   | 54 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33001  | Bentonville    | AR    | W-1                        | 10.03                             | 38   | 43 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33002  | Bentonville    | AR    | W-2                        | 9.34                              | 38   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33003  | Bentonville    | AR    | W-3                        | 14.25                             | 38   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33004  | Bentonville    | AR    | W-4                        | 24.                               | 39   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33005  | Bentonville    | AR    | W-5                        | 19.4                              | 38   | 47 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33006  | Bentonville    | AR    | W-6                        | 10.75                             | 39   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34001*   | Cherokee       | OK    | W-1                        | 2.23                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34002*   | Cherokee       | OK    | W-2                        | 4.82                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34003  | Cherokee       | OK    | W-3                        | 8.04                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34004  | Cherokee       | OK    | W-4                        | 4.35                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34005  | Cherokee       | OK    | W-5                        | 7.85                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34006*   | Cherokee       | OK    | W-6                        | 1.75                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34007*   | Cherokee       | OK    | W-7                        | 1.99                              | 42   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34008*   | Cherokee       | OK    | W-8                        | 4.72                              | 41   | 60 |    | 01  | 02 |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34009  | Cherokee       | OK    | W-9                        | 8.50                              | 42   | 60 |    | 01  | 02 | 03 | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34010  | Cherokee       | OK    | W-10                       | 1.68                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 34011  | Cherokee       | OK    | W-11                       | 2.12                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 34012  | Cherokee       | OK    | W-12                       | 1.68                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 34013*   | Cherokee       | OK    | W-13                       | 1.99                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 34014  | Cherokee       | OK    | W-14                       | 2.16                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 34015  | Cherokee       | OK    | W-15                       | 2.15                              | 60   | 67 |    |   |    |    |    |    |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |
| 35001*   | Guthrie        | OK    | W-1                        | 33.40                             | 32   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35002*   | Guthrie        | OK    | W-2                        | 3.21                              | 31   | 51 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35003*   | Guthrie        | OK    | W-3                        | 3.13                              | 30   | 51 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35004*   | Guthrie        | OK    | W-4                        | 5.62                              | 31   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35005*   | Guthrie        | OK    | W-5                        | 5.28                              | 31   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35006*   | Guthrie        | OK    | W-I                        | 2.50                              | 37   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35007*   | Guthrie        | OK    | W-II                       | 5.09                              | 42   | 55 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35008*   | Guthrie        | OK    | W-III                      | 9.09                              | 42   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35009*   | Guthrie        | OK    | W-IV                       | 13.4                              | 42   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35010*   | Guthrie        | OK    | W-V                        | 15.7                              | 42   | 53 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35011*   | Guthrie        | OK    | W-VI                       | 94.8                              | 42   | 55 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 36001  | Muskogee       | OK    | W-I                        | 14.5                              | 39   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 36002  | Muskogee       | OK    | W-II                       | 65.4                              | 39   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 36003  | Muskogee       | OK    | W-IV                       | 24.9                              | 38   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 37001*   | Stillwater     | OK    | W-1                        | 16.7                              | 51   |    | 05 | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 37002*   | Stillwater     | OK    | W-3                        | 92.                               | 51   | 72 |    | 01  | 02 | 03 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 37003*   | Stillwater     | OK    | W-4                        | 206.                              | 51   |    |    | 01  | 02 |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |
| 38001  | Garland        | TX    | W-I                        | 25.                               | 38   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 38002  | Garland        | TX    | W-III                      | 10.4                              | 38   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 38003  | Garland        | TX    | W-IV                       | 16.2                              | 39   | 47 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39001  | Spur           | TX    | W-1                        | 11.53                             | 27   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39002  | Spur           | TX    | W-2                        | 9.39                              | 27   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39003  | Spur           | TX    | W-3                        | 11.71                             | 27   | 44 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39004  | Spur           | TX    | W-5                        | 5.81                              | 27   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39005  | Spur           | TX    | W-6                        | 5.32                              | 27   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39006  | Spur           | TX    | W-11                       | 8.70                              | 30   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39007  | Spur           | TX    | W-12                       | 8.41                              | 30   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39008  | Spur           | TX    | W-14                       | 8.53                              | 30   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39009  | Spur           | TX    | W-15                       | 8.50                              | 30   | 45 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40001  | Tyler          | TX    | W-2                        | 9.15                              | 43   | 44 |    | 01  | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40002  | Tyler          | TX    | W-3                        | 7.94                              | 32   | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40003  | Tyler          | TX    | W-4                        | 6.05                              | 31   | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40004  | Tyler          | TX    | W-5                        | 1.57                              | 32   | 42 |    | 01  | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/--</sup>  
Continued

| Water-shed<br>ident.<br>code <sup>2/--</sup> | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres <sup>3/--</sup> | Record<br>(19--)<br>B <sub>4</sub> /E <sub>5</sub> | Rev.<br>ref.<br>No.<br>5/-- | Index to information<br>in reference <sup>1/--</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|------------------------|-------------------------------------|--|-----------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                        |                                     |  |                             | 01   | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 41001  | Vega           |       | TX W-1                 | 129.                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 41002  | Vega           |       | TX W-2                 | 95.9                                | 38 43  |                             | 01 02 03   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42001  | Riesel         |       | TX A                   | 42.                                 | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42002*                                       | Riesel         |       | TX C                   | 579.                                | 38   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42003*                                       | Riesel         |       | TX D                   | 1,110.                              | 37   | 08                          | 01 02 03   |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42004*                                       | Riesel         |       | TX G                   | 4,380.                              | 38   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42005  | Riesel         |       | TX J                   | 5,860.                              | 37 43  |                             | 01 02 03   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42006*                                       | Riesel         |       | TX W-1                 | 174.                                | 37   | 08                          | 01 02 03   |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42007*                                       | Riesel         |       | TX W-2                 | 130.                                | 37   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42008*                                       | Riesel         |       | TX W-6                 | 42.3                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42009  | Riesel         |       | TX W-8                 | 40.4                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42010*                                       | Riesel         |       | TX W-10                | 19.7                                | 38   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42011*                                       | Riesel         |       | TX Y                   | 309.                                | 37   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42012*                                       | Riesel         |       | TX Y-2                 | 132.                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42013*                                       | Riesel         |       | TX Y-4                 | 79.9                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |    |
| 42014*                                       | Riesel         |       | TX Y-6                 | 16.3                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42015*                                       | Riesel         |       | TX Y-7                 | 40.                                 | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42016*                                       | Riesel         |       | TX Y-8                 | 20.8                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42017*                                       | Riesel         |       | TX Y-10                | 18.6                                | 38   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42018  | Riesel         |       | TX SW-2                | 2.7                                 | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42019  | Riesel         |       | TX SW-3                | 3.09                                | 39 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42020  | Riesel         |       | TX SW-5                | 3.09                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42021  | Riesel         |       | TX SW-6                | 3.04                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42022  | Riesel         |       | TX SW-7                | 3.15                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42023*                                       | Riesel         |       | TX SW-11               | 2.66                                | 38   |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 42024*                                       | Riesel         |       | TX SW-12               | 2.90                                | 38   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42025  | Riesel         |       | TX SW-13               | 3.19                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42026  | Riesel         |       | TX SW-14               | 3.02                                | 39 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42027  | Riesel         |       | TX SW-16               | 3.17                                | 37 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42028*                                       | Riesel         |       | TX SW-17               | 2.99                                | 39   | 08                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |
| 42029  | Riesel         |       | TX SW-18               | 3.04                                | 38 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42030  | Riesel         |       | TX Z                   | 310.                                | 39 43  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42031*                                       | Riesel         |       | TX P-1                 | .24                                 | 38 68  | 08                          |  |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 42032*                                       | Riesel         |       | TX P-2                 | .24                                 | 38 68  | 08                          |  |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 42033*                                       | Riesel         |       | TX P-3                 | .24                                 | 38 68  | 08                          |  |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 42034*                                       | Riesel         |       | TX P-4                 | .24                                 | 38 68  | 08                          |  |    |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 42035*                                       | Riesel         |       | TX SW-19               | 3.25                                | 70   |                             |  |    |    |    |    |    |    |    |    |    |    |    |    | 14 | 15 | 16 | 17 | 18 |    |
| 42036*                                       | Riesel         |       | TX SW-20               | 3.21                                | 70   |                             |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 14 | 15 | 16 | 17 | 18 |
| 42037*                                       | Riesel         |       | TX Y-13                | 11.3                                | 69   |                             |  |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 42038*                                       | Riesel         |       | TX Y-14                | 5.6                                 | 69   |                             |  |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 42039*                                       | Riesel         |       | TX W-12                | 9.9                                 | 69   |                             |  |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 42040*                                       | Riesel         |       | TX W-13                | 11.3                                | 69   |                             |  |    |    |    |    |    |    |    |    |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 43001  | Hays           |       | KS 6L                  | 2.85                                | 34 38  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 43002  | Hays           |       | KS AG                  | 1.61                                | 32 47  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44001*                                       | Hastings       |       | NE W-3                 | 481.                                | 38 67  | 06                          | 01 02 03   |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44002*                                       | Hastings       |       | NE W-5                 | 411.                                | 39 67  |                             | 01 02  |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44003*                                       | Hastings       |       | NE W-8                 | 2,086.                              | 39 67  | 06                          | 01 02 03   |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44004*                                       | Hastings       |       | NE W-11                | 3,490.                              | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44005*                                       | Hastings       |       | NE 1-H                 | 3.62                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44006*                                       | Hastings       |       | NE 2-H                 | 3.40                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44007*                                       | Hastings       |       | NE 3-H                 | 3.77                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44008*                                       | Hastings       |       | NE 4-H                 | 3.64                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44009*                                       | Hastings       |       | NE 5-H                 | 4.02                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44010*                                       | Hastings       |       | NE 6-H                 | 4.01                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44011*                                       | Hastings       |       | NE 7-H                 | 4.26                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44012*                                       | Hastings       |       | NE 8-H                 | 3.97                                | 39 67  | 06                          | 01 02  |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |    |
| 44013*                                       | Hastings       |       | NE 9-H                 | 3.78                                | 39 54  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44014*                                       | Hastings       |       | NE 10-H                | 3.98                                | 39 54  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44015*                                       | Hastings       |       | NE 11-H                | 3.85                                | 39 54  |                             | 01 02  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/</sup>--  
Continued

| Water-shed<br>ident.<br>code | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres | Record Rev.             |                        | Index to information<br>in reference 1/ -- |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|------------------------------|----------------|-------|------------------------|---------------------|-------------------------|------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|                              | Town           | State |                        |                     | (19--)<br>B<br>4/<br>5/ | ref.<br>E<br>5/<br>No. | 01   | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |  |
| 44016*                       | Hastings       | NE    | 12-H                   | 3.66                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44017*                       | Hastings       | NE    | 13-H                   | 3.41                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44018*                       | Hastings       | NE    | 14-H                   | 3.35                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44019*                       | Hastings       | NE    | 15-H                   | 3.62                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44020*                       | Hastings       | NE    | 16-H                   | 3.57                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44021*                       | Hastings       | NE    | 17-H                   | 3.96                | 39                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44022*                       | Hastings       | NE    | 18-H                   | 3.74                | 39                      | 67                     | 06   | 01 | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 44023*                       | Hastings       | NE    | 19-H                   | 4.10                | 41                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44024*                       | Hastings       | NE    | 20-H                   | 4.05                | 41                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44025*                       | Hastings       | NE    | 21-H                   | 3.94                | 41                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44026*                       | Hastings       | NE    | 22-H                   | 3.83                | 41                      | 67                     | 06   | 01 | 02 |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 44027*                       | Hastings       | NE    | 23-H                   | 4.20                | 41                      | 67                     |  | 01 | 02 |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 44028*                       | Hastings       | NE    | 24-H                   | 4.21                | 41                      | 54                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 44029*                       | Hastings       | NE    | 25-H                   | 2.24                | 63                      | 67                     |  |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 45001*                       | Safford        | AZ    | W-I                    | 519.                | 39                      | 76                     | 07   | 01 | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 45002*                       | Safford        | AZ    | W-II                   | 682.                | 39                      | 76                     | 08   | 01 | 02 | 03 | 04 | 05 | 06 |    | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 45003*                       | Safford        | AZ    | W-IV                   | 764.                | 39                      | 76                     |  | 01 | 02 |    | 04 | 05 | 06 |    | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 45004*                       | Safford        | AZ    | W-V                    | 723.                | 39                      | 76                     | 07   | 01 | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |  |
| 46001                        | Colorado Spr.  | CO    | W-1                    | 10.6                | 38                      | 46                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 46002                        | Colorado Spr.  | CO    | W-2                    | 39.7                | 38                      | 46                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 46003                        | Colorado Spr.  | CO    | W-3                    | 35.4                | 38                      | 46                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 46004                        | Colorado Spr.  | CO    | W-4                    | 35.6                | 38                      | 46                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 47001*                       | Albuquerque    | NM    | W-I                    | 246.                | 39                      | 76                     | 08   | 01 | 02 | 03 | 04 | 05 | 06 |    | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |  |
| 47002*                       | Albuquerque    | NM    | W-II                   | 40.5                | 39                      | 76                     | 07   | 01 | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |  |
| 47003*                       | Albuquerque    | NM    | W-III                  | 176.                | 39                      | 76                     | 07   | 01 | 02 |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |  |
| 48001                        | Mexican Spr.   | NM    | W-1                    | 187.                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48002                        | Mexican Spr.   | NM    | W-2                    | 610.                | 37                      | 42                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48003                        | Mexican Spr.   | NM    | W-3                    | 1,325.              | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48004                        | Mexican Spr.   | NM    | W-6                    | 5,550.              | 37                      | 42                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48005                        | Mexican Spr.   | NM    | W-7                    | 8,495.              | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48006                        | Mexican Spr.   | NM    | W-8                    | 20,910.             | 37                      | 42                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48007                        | Mexican Spr.   | NM    | W-10                   | 17,220.             | 37                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48008                        | Mexican Spr.   | NM    | W-11                   | 46,080.             | 37                      | 39                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48009                        | Mexican Spr.   | NM    | W-12                   | 2,550.              | 37                      | 39                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48010                        | Mexican Spr.   | NM    | W-13                   | 3,360.              | 37                      | 39                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48011                        | Mexican Spr.   | NM    | W-14                   | 3,560.              | 37                      | 38                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 48012                        | Mexican Spr.   | NM    | W-15                   | 4,740.              | 37                      | 39                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 49001                        | Santa Fe       | NM    | W-I                    | 141.                | 39                      | 48                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 49002                        | Santa Fe       | NM    | W-II                   | 790.                | 39                      | 48                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 49003                        | Santa Fe       | NM    | W-III                  | 51.6                | 39                      | 48                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 50001                        | Placerville    | CA    | W-1                    | 41.                 | 35                      | 44                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51001                        | Santa Paula    | CA    | W-1                    | 413.                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51002                        | Santa Paula    | CA    | W-3                    | 106.                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51003                        | Santa Paula    | CA    | W-4                    | 44.4                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51004                        | Santa Paula    | CA    | W-5                    | 55.1                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51005                        | Santa Paula    | CA    | W-6                    | 163.                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51006                        | Santa Paula    | CA    | H.B.R.                 | 735.                | 36                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51007                        | Santa Paula    | CA    | L.A.                   | 1,607.              | 34                      | 40                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51008                        | Santa Paula    | CA    | H.P.R.                 | 1,832.              | 34                      | 43                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 51009                        | Santa Paula    | CA    | H.A.B.                 | 5,939.              | 34                      | 37                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 52001                        | Sebastopol     | CA    | W-1                    | 83.                 | 36                      | 43                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 52002                        | Sebastopol     | CA    | W-2                    | 56.                 | 36                      | 40                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 53001                        | Vacaville      | CA    | W-I                    | 40.                 | 37                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 54001                        | Watsonville    | CA    | W-1                    | 16.8                |                         |                        |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 54002                        | Watsonville    | CA    | W-2                    | 18.5                |                         |                        |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 54003                        | Watsonville    | CA    | W-3                    | 27.4                | 38                      | 42                     |  | 01 | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 54004                        | Watsonville    | CA    | W-4                    | 10.1                | 38                      | 42                     |  | 01 | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

See footnotes at end of table.



Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/--</sup>  
Continued

| Water-<br>shed<br>ident.<br>code <sup>2/--</sup> | Study location |       | Water-<br>shed<br>name-No. | Area<br>in<br>acres <sup>3/--</sup> | Record Rev.<br>(19--)<br>B <sub>4</sub> /E <sub>5</sub> |    | Ref.<br>No. | Index to information<br>in reference <sup>1/--</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|----------------------------|-------------------------------------|---|----|-------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                            |                                     | 01  | 02 |             | 03   | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |    |
| 55001  | Emmett         | ID    | W-1                        | 219.4                               | 38  | 41 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 55002  | Emmett         | ID    | W-2                        | 69.4                                | 38  | 41 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 56001*   | Moscow         | ID    | W-1                        | 146.8                               | 37  | 42 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 56002*   | Moscow         | ID    | W-2                        | 177.9                               | 37  | 42 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57001  | Newberg        | OR    | W-1                        | 13.2                                | 38  | 42 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57002  | Newberg        | OR    | W-2                        | 21.6                                | 38  | 42 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57003  | Newberg        | OR    | W-3                        | 12.8                                | 38  | 42 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57004  | Newberg        | OR    | W-4                        | 6.2                                 | 38  | 42 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 58001  | Dayton         | WA    | W-1                        | 19.2                                | 39  | 42 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 59001  | Pullman        | WA    | S.F.P.R.                   | 51,900.                             | 34  | 40 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 59002  | Pullman        | WA    | M.F.C.                     | 17,600.                             | 34  | 40 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 59003  | Pullman        | WA    | F.M.C.                     | 46,000.                             | 34  | 40 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60001  | Pullman        | WA    | G.S.2                      | 68.2                                | 31  | 46 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60002  | Pullman        | WA    | G.S.4                      | 2.33                                | 31  | 38 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60003  | Pullman        | WA    | G.S.5                      | 14.4                                | 32  | 46 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60004  | Pullman        | WA    | G.S.6                      | 15.2                                | 32  | 46 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60005  | Pullman        | WA    | G.S.7                      | 16,700.                             | 32  | 38 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60006  | Pullman        | WA    | G.S.8                      | 762.                                | 34  | 41 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60007  | Pullman        | WA    | G.S.9                      | 879.                                | 41  | 46 |             | 01   | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60008  | Pullman        | WA    | G.S.10                     | 4,430.                              | 41  | 47 |             | 01   | 02 | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 61001*   | Monticello     | IL    | IA                         | 82.                                 | 49  | 59 |             | 01   | 02 | 03 | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 18 |
| 61002*   | Monticello     | IL    | IB                         | 45.5                                | 49  | 59 |             | 01   | 02 | 03 | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 18 |
| 62001*   | Oxford         | MS    | W-4                        | 2,000.                              | 57  |    | 06          |  |    | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 62002*   | Oxford         | MS    | W-5                        | 1,000.                              | 57  |    | 06          |  |    | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 62003*   | Oxford         | MS    | W-10                       | 5,530.                              | 57  |    | 06          |  |    | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 62004*   | Oxford         | MS    | W-12                       | 22,800.                             | 57  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 62005*   | Oxford         | MS    | W-17                       | 32,100.                             | 57  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 62006  | Oxford         | MS    | W-19                       | 243.                                | 57  | 64 | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 |    |    |    |    |    |    |    |    |    |    |    |
| 62007*   | Oxford         | MS    | W-24                       | 512.                                | 57  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 62008*   | Oxford         | MS    | W-28                       | 1,080.                              | 57  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 62009  | Oxford         | MS    | W-30                       | 113.                                | 57  | 59 |             |  |    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 62010*   | Oxford         | MS    | W-32                       | 20,000.                             | 57  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 62011*   | Oxford         | MS    | W-34                       | 75,000.                             | 57  |    | 06          |  |    | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |    | 15 | 16 | 17 | 18 |    |
| 62012*   | Oxford         | MS    | W-35                       | 7,550.                              | 57  | 77 | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 62013  | Oxford         | MS    | WC-1                       | 3.88                                | 58  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 62014*   | Oxford         | MS    | WC-2                       | 1.45                                | 58  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 62015  | Oxford         | MS    | WC-3                       | 1.61                                | 58  |    | 06          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 62016  | Oxford         | MS    | WP-4                       | 3.01                                | 58  | 63 | 06          |  |    |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |    |
| 62017*   | Oxford         | MS    | W-17A                      | 3,200.                              | 57  |    | 06          |  |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |    |
| 62018*   | Oxford         | MS    | W-35A                      | 1,090.                              | 57  |    | 06          |  |    |    | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |    |    |
| 63001*   | Tombstone      | AZ    | W-1                        | 36,900.                             | 54  | 74 | 07          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63002*   | Tombstone      | AZ    | W-2                        | 28,100.                             | 54  | 74 | 07          |  |    |    | 04 | 05 | 06 | 07 |    | 09 | 10 |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63003*   | Tombstone      | AZ    | W-3                        | 2,220.                              | 54  | 74 | 07          |  |    |    | 04 | 05 | 06 | 07 |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63004*   | Tombstone      | AZ    | W-4                        | 560.                                | 54  | 74 | 07          |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63005*   | Tombstone      | AZ    | W-5                        | 5,510.                              | 54  | 73 | 07          |  |    |    | 04 | 05 | 06 | 07 |    |    |    |    |    |    |    |    |    |    |    |    |
| 63006*   | Tombstone      | AZ    | W-6                        | 23,500.                             | 62  | 74 |             |  |    |    |    |    |    | 07 | 08 | 09 | 10 |    | 12 | 13 | 14 | 15 |    |    |    |    |
| 63007*   | Tombstone      | AZ    | 6307                       | 3,340.                              | 66  | 74 |             |  |    |    |    |    |    |    |    |    |    | 10 | 11 |    |    |    |    |    |    |    |
| 63008*   | Tombstone      | AZ    | 6308                       | 3,830.                              | 63  | 74 |             |  |    |    |    |    |    |    | 08 | 09 | 10 |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63011*   | Tombstone      | AZ    | 6311                       | 2,035.                              | 63  | 74 |             |  |    |    |    |    |    |    | 08 | 09 | 10 |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63015*   | Tombstone      | AZ    | 6315                       | 5,912.                              | 65  | 74 |             |  |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 63103*   | Tombstone      | AZ    | 63103                      | 8.3                                 | 65  |    |             |  |    |    |    |    |    |    |    |    | 10 | 11 | 12 |    |    |    | 16 | 17 | 18 |    |
| 63111  | Tombstone      | AZ    | 63111                      | 143.                                | 62  | 68 |             |  |    |    |    |    |    |    |    |    |    | 10 | 11 | 12 |    |    |    |    |    |    |
| 64001*   | Santa Rosa     | NM    | W-1                        | 42,880.                             | 55  | 79 |             |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 |    | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 65002  | Newell         | SD    | W-2                        | 115.                                | 58  | 73 |             |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65003  | Newell         | SD    | W-3                        | 90.                                 | 58  | 61 |             |  |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65004  | Newell         | SD    | W-4                        | 105.                                | 58  | 61 |             |  |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65005  | Newell         | SD    | W-5                        | 46.                                 | 58  | 73 |             |  |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65006  | Newell         | SD    | W-6                        | 30.                                 | 58  | 61 |             |  |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/--</sup>  
Continued

| Water-shed<br>ident.<br>code <sup>2/--</sup> | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres <sup>3/--</sup> | Record<br>(19--)<br>B <sub>4</sub> /E <sub>5</sub> | Rev.<br>ref.<br>No.<br>5/ | Index to information<br>in reference <sup>1/--</sup> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|------------------------|-------------------------------------|--|---------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                        |                                     |  |                           | 01   | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |    |    |
| 65007  | Newell         | SD    | W-7                    | 160.                                | 58   | 73                        | 05   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65008  | Newell         | SD    | W-8                    | 160.                                | 58   | 61                        |  |    |    |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65009  | Newell         | SD    | W-9                    | 815.                                | 58   | 61                        |  |    |    |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65010  | Newell         | SD    | W-10                   | 280.                                | 58   | 61                        |  |    |    |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65011  | Newell         | SD    | W-11                   | 160.                                | 58   | 61                        |  |    |    |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65012  | Newell         | SD    | W-12                   | 90.                                 | 58   | 73                        | 05   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65013  | Newell         | SD    | W-13                   | 160.                                | 58   | 73                        |  |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65014  | Newell         | SD    | W-14                   | 35.                                 | 58   | 73                        | 05   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65015  | Newell         | SD    | W-15                   | 115.                                | 58   | 73                        | 05   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 65016  | Newell         | SD    | W-16                   | 13,000.                             | 58   | 61                        | 05   |    |    |    |    | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 66001*                                       | Moorefield     | WV    | W-1                    | 8.57                                | 58   | 67                        | 06   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 66002*                                       | Moorefield     | WV    | W-2                    | 9.73                                | 58   | 67                        | 06   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 66004*                                       | Moorefield     | WV    | W-4                    | 6.32                                | 58   | 67                        | 06   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 66005*                                       | Moorefield     | WV    | W-5                    | 9.55                                | 58   | 67                        | 06   |    |    |    |    | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |    |    |    |    |    |    |    |    |
| 67001*                                       | N. Danville    | VT    | W-1                    | 10,610.                             | 58   | 76                        |  |    |    |    |    | 04 | 05 | 06 | 07 | 08 |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 |    |    |
| 67002*                                       | N. Danville    | VT    | W-2                    | 146.                                | 58   | 78                        |  |    |    |    |    | 04 | 05 | 06 | 07 | 08 |    |    | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 67003*                                       | N. Danville    | VT    | W-3                    | 2,067.                              | 60   |                           |  |    |    |    |    |    | 05 | 06 | 07 | 08 |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 |    |    |
| 67004*                                       | N. Danville    | VT    | W-4                    | 10,752.                             | 60   | 74                        |  |    |    |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 |    |    |
| 67005*                                       | N. Danville    | VT    | W-5                    | 27,469.                             | 60   | 79                        |  |    |    |    |    |    | 05 | 06 | 07 | 08 |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 |    |    |
| 68001*                                       | Reynolds       | ID    | W-1                    | 57,700.                             | 63   |                           |  |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 68002*                                       | Reynolds       | ID    | W-2                    | 8,990.                              | 65   |                           |  |    |    |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 68003*                                       | Reynolds       | ID    | W-3                    | 7,846.                              | 66   |                           |  |    |    |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 68004*                                       | Reynolds       | ID    | W-4                    | 13,453.                             | 67   |                           |  |    |    |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 68011*                                       | Reynolds       | ID    | W-11                   | 306.                                | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 68012*                                       | Reynolds       | ID    | W-12                   | 205.                                | 67   | 77                        |  |    |    |    |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 68013*                                       | Reynolds       | ID    | W-13                   | 100.                                | 63   |                           |  |    |    |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 68014*                                       | Reynolds       | ID    | W-14                   | 33.                                 | 67   |                           |  |    |    |    |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69001*                                       | Chickasha      | OK    | 100                    | 2,339,800.                          | 61   | 79                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69002*                                       | Chickasha      | OK    | 200                    | (d)2,612,500.<br>(e) 273,000.       | 61   | 75                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69004*                                       | Chickasha      | OK    | 400                    | (d)2,725,760.<br>(e) 112,910.       | 61   | 68                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 |    |    |    |    |    |    |    |    |
| 69005*                                       | Chickasha      | OK    | 500                    | (d)2,769,920.<br>(e) 43,840.        | 64   | 78                        |  |    |    |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69006*                                       | Chickasha      | OK    | 600                    | (d)3,011,800.<br>(e) 243,050.       | 63   | 72                        |  |    |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |    |    |    |    |
| 69007*                                       | Chickasha      | OK    | 700                    | (d)3,061,120.<br>(e) 50,830.        | 61   | 78                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69008*                                       | Chickasha      | OK    | 611                    | 4,845.                              | 61   | 74                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 |    |    |    | 13 | 14 | 15 | 16 | 17 | 18 |
| 69009*                                       | Chickasha      | OK    | 612                    | 563.                                | 61   | 74                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69010*                                       | Chickasha      | OK    | 111                    | 16,634.                             | 62   | 78                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69011*                                       | Chickasha      | OK    | 131                    | 25,660.                             | 62   | 78                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69012*                                       | Chickasha      | OK    | 411                    | 33,330.                             | 62   | 74                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69013*                                       | Chickasha      | OK    | 511                    | 38,020.                             | 62   | 78                        |  |    |    |    |    |    |    |    | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69014*                                       | Chickasha      | OK    | 110                    | 25,020.                             | 63   | 78                        |  |    |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69015*                                       | Chickasha      | OK    | 522                    | 132,990.                            | 63   |                           |  |    |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69016*                                       | Chickasha      | OK    | 512                    | 22,530.                             | 63   | 78                        |  |    |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69017*                                       | Chickasha      | OK    | 621                    | 21,310.                             | 63   |                           |  |    |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69018*                                       | Chickasha      | OK    | 121                    | 131,780.                            | 63   | 74                        |  |    |    |    |    |    |    |    | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69019*                                       | Chickasha      | OK    | 513                    | 12,314.                             | 65   | 78                        |  |    |    |    |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 69020  | Chickasha      | OK    | 514                    | 7,225.                              | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |    |
| 69021  | Chickasha      | OK    | 5141                   | 4,064.                              | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |    |
| 69022  | Chickasha      | OK    | 5142                   | 360.                                | 67   | 74                        |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |
| 69023  | Chickasha      | OK    | 5143                   | 485.                                | 67   | 74                        |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |
| 69024  | Chickasha      | OK    | 5144                   | 1,456.                              | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |
| 69025  | Chickasha      | OK    | 5145                   | 253.                                | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |
| 69026  | Chickasha      | OK    | 5146                   | 762.                                | 67   | 78                        |  |    |    |    |    |    |    |    |    |    |    |    |    |    | 11 |    |    |    |    |    |    |

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18<sup>1/</sup>--  
Continued

| Water-shed<br>ident.<br>code <sup>2/</sup> | Study location |       | Water-shed<br>name-No. | Area<br>in<br>acres <sup>3/</sup> | Record<br>(19--)<br>B <sup>4/</sup> /E <sup>5/</sup> | Rev.<br>ref.<br>No. | Index to information<br>in reference <sup>1/</sup> -- |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|----------------|-------|------------------------|-----------------------------------|--|---------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  | Town           | State |                        |                                   |  |                     | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69027*                                     | Chickasha      | OK    | 311                    | 15,206.                           | 67   | 78                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69028*                                     | Chickasha      | OK    | 515                    | 1,657.                            | 73   |                     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 17 | 18 |    |
| 69030*                                     | Chickasha      | OK    | C-1                    | 17.8                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69031*                                     | Chickasha      | OK    | C-2                    | 32.5                              | 62   | 75                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69032*                                     | Chickasha      | OK    | C-3                    | 44.3                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69033*                                     | Chickasha      | OK    | C-4                    | 29.9                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69034*                                     | Chickasha      | OK    | C-5                    | 12.8                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69035*                                     | Chickasha      | OK    | C-6                    | 13.0                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69036*                                     | Chickasha      | OK    | C-7                    | 26.5                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69037*                                     | Chickasha      | OK    | C-8                    | 27.3                              | 65   | 76                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69038                                      | Chickasha      | OK    | R-1                    | 17.8                              | 62   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69039                                      | Chickasha      | OK    | R-2                    | 24.1                              | 62   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69040                                      | Chickasha      | OK    | R-3                    | 25.8                              | 62   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69041                                      | Chickasha      | OK    | R-4                    | 18.1                              | 62   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69042*                                     | Chickasha      | OK    | R-5                    | 23.7                              | 66   | 78                  |   |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69043*                                     | Chickasha      | OK    | R-6                    | 27.2                              | 66   | 78                  |   |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69044*                                     | Chickasha      | OK    | R-7                    | 19.2                              | 66   | 78                  |   |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 69045*                                     | Chickasha      | OK    | R-8                    | 27.6                              | 66   | 78                  |   |    |    |    |    |    |    |    |    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |    |
| 70001*                                     | Sonora         | TX    | W-14                   | 30,720.                           | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70002*                                     | Sonora         | TX    | S-9                    | 1,774.                            | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70003*                                     | Sonora         | TX    | S-10                   | 5,392.                            | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70004*                                     | Sonora         | TX    | S-11                   | 10,787.                           | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70005*                                     | Sonora         | TX    | S-12                   | 2,801.                            | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 |    |    |    |    |
| 70006*                                     | Sonora         | TX    | S-13                   | 686.                              | 61   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70007*                                     | Sonora         | TX    | W-1                    | 10.2                              | 63   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70008*                                     | Sonora         | TX    | W-2                    | 8.6                               | 65   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70009*                                     | Sonora         | TX    | W-3                    | 6.7                               | 65   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70010*                                     | Sonora         | TX    | W-4                    | 4.5                               | 66   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70011*                                     | Sonora         | TX    | W-5                    | 7.2                               | 66   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70012*                                     | Sonora         | TX    | W-6                    | 6.9                               | 66   | 75                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 70013*                                     | Sonora         | TX    | W-7                    | 12.2                              | 65   | 73                  |   |    |    |    |    |    |    |    |    |    | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 71001*                                     | Treynor        | IA    | W-1                    | 74.5                              | 64   |                     |   |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 71002*                                     | Treynor        | IA    | W-2                    | 82.8                              | 64   |                     |   |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 71003*                                     | Treynor        | IA    | W-3                    | 107.                              | 64   |                     |   |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 71004*                                     | Treynor        | IA    | W-4                    | 150.                              | 64   |                     |   |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 71005*                                     | Treynor        | IA    | W-5                    | 389.                              | 63   | 73                  |   |    |    |    |    |    |    |    | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |    |    |    |
| 72001*                                     | Cottonwood     | SD    | H-2                    | 2.13                              | 63   | 73                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 72002*                                     | Cottonwood     | SD    | L-2                    | 2.38                              | 63   | 73                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 72005*                                     | Cottonwood     | SD    | M-1                    | 2.35                              | 63   | 73                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 73002*                                     | Fort Staunton  | NM    | 7302                   | 32.2                              | 66   |                     |   |    |    |    |    |    |    |    |    |    | 10 |    |    |    |    |    |    |    |    |
| 75001*                                     | Ahoskie        | NC    | W-A1                   | 36,480.                           | 64   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 75002*                                     | Ahoskie        | NC    | W-A2                   | 15,360.                           | 64   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 75003*                                     | Ahoskie        | NC    | W-A3                   | 2,368.                            | 64   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |
| 75004*                                     | Ahoskie        | NC    | W-A4                   | 1,664.                            | 64   | 74                  |   |    |    |    |    |    |    |    | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |

- 1/ For description of references 1-18, see page 1 and table 1.  
2/ \* = streamflow data for all or part of record period are stored in ARS Water Data Bank.  
3/ (a) area changed from 63,170 acres (1-1-1967).  
(b) area changed from 10,050 acres (1-1-1967).  
(c) area changed from 22,656 acres (1-1-1967).  
(d) = total drainage area.  
(e) = total study area.  
4/ B = year (19--) record began; E = year (19--) record ended.  
5/ Reference in which additional or revised watershed information has been included.



the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location, including latitude and longitude when available, and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current calendar year, the precipitation (P) in inches is given in the monthly columns and the yearly total in the last column, headed annual. In the line below, the corresponding runoff (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the calendar year listed in the first column. Under the maximum discharge heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the maximum volume heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUMS FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest longtime National Weather Service precipitation station together with the record length.

For some watersheds, tables of daily air temperature (maximum and minimum in degrees Fahrenheit), daily precipitation (inches), and mean daily discharge (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note following the mean daily discharge table. Cooperating agencies are identified at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for selected runoff events begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the selected runoff events were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) antecedent rainfall and runoff that occurred on the day of the event prior to the beginning of the event; (2) rainfall intensities and accumulated amounts for the event; (3) runoff rates and accumulated amounts for the event; and (4) specific watershed conditions at the time of the event.

Simple graphs of rainfall and runoff rates for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-17 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet

per second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

## New Watersheds

No new watersheds are included. For watersheds under study during 1974 and listed in this publication, see table 3.

## WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, the major river basin in which it lies, and latitude and longitude. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres and in both acres and square miles if more than 1 square mile. If areas are revised, additional values are included with notes identifying the date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, and fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or single grain, if noncoherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.



Soils may be grouped into soil drainage classes, based on observations and inferences used to obtain classes of runoff, soil permeability, and internal soil drainage. These classes are given in some soils descriptions to identify internal drainage. They are very poorly drained, poorly drained, imperfectly or somewhat poorly drained, moderately well drained, well drained, somewhat excessively drained, or excessively drained.

EROSION conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.—The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.—The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.—The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.—Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture "Land-Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. Classes I-IV are suitable for cultivation and other uses, whereas classes V-VIII are not suitable for cultivation.

Class I.—Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.—Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.—Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.—Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very

sandy; often found in dry climate.

Class V.—Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.—Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.—Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.—Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's "Outline of Ground-Water Hydrology," U. S. Geological Survey Water-Supply Paper 494, published in 1923. As to permanence, streams may be divided into perennial, intermittent, and ephemeral.

A perennial stream, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A spring-fed intermittent stream, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream.

A surface-fed intermittent stream, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least 1 month.

An ephemeral stream, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An interrupted stream contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, perennial interrupted streams and intermittent interrupted streams. A continuous stream does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

## STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

| Symbol          | Meaning  |
|-----------------|--|
| E               | - value is estimated or partially estimated.   |
| H               | - precipitation in form of hail.   |
| L               | - precipitation in form of sleet or freezing rain.   |
| M               | - mixed precipitation in form of rain, snow, and sleet.  |
| N               | - precipitation in form of rain and snow.  |
| NR              | - when used in place of value, "no record."  |
| P               | - monthly or annual precipitation in inches.   |
| Q               | - monthly or annual runoff in inches.  |
| RG              | - rain gage, generally followed by gage number.  |
| S               | - precipitation in form of snow.   |
| STA AV (or AVG) | - station average for period of record.  |
| T               | - trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal. |
| Z               | - indicates an accurately measured total for a series of days that has been equally divided among coded days.  |

Time-of-day symbols or designations a, p, m, and n used in previous publications through 1961 have been discontinued, and military time (0001 through 2400) has been substituted in publications since then. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

## PERSONNEL RESPONSIBLE FOR DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are—

|   | Location |
|---|----------|
| C. A. Burrough, P. R. Yates, H. D. Wade.....                            | 8        |
| A. P. Barnett, A. W. Thomas.....  | 10       |
| R. N. Weaver.....   | 16       |
| L. A. Kramer, M. Mazzocco.....  | 25, 71   |
| C. A. Salrin.....   | 26       |
| F. R. Crow, W. R. Gwinn.....  | 37       |
| C. W. Richardson, D. A. Wright.....                                     | 42       |
| J. K. Mitchell.....   | 61       |
| A. J. Bowie, W. A. Champion.....  | 62       |
| V. A. Ferreira, F. Lopez.....   | 63, 64   |
| R. L. Engleman.....   | 68       |
| D. E. Gregory, J. W. Naney, A. D. Nicks, R. R. Schoff, N. H. Welch..... | 69       |

## ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-17 (see pp. 1 and 2), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. Following is a listing, by location number, of publications (issued in 1974 or otherwise noted) that resulted from related work through 1974. Several publications pertaining to the overall program of hydrology that could not be tied to a specific location are listed at the end under General References.

10. Watkinsville, Georgia  
Thomas, A. W., Kruse, E. G., and Duke, H. R.  
Steady infiltration from line sources buried in soil. Amer. Soc. Agr. Engin. Trans. 17(1): 125-128, 133, illus.
16. Klingerstown, Pennsylvania  
Engman, E. T.  
Partial area hydrology and its application to water resources. Water Resources Bul. 10(3): 512-521, illus.  
  
Parmele, L. H., and Gburek, W. J.  
Hydrologic impact of tropical storm Agnes. Jour. Hydrol. 22: 179-193, illus.  
  
\_\_\_\_\_, and Rogowski, A. S.  
A partial area model for storm flow synthesis. Water Resources Res. 10(3): 464-472, illus.  
  
\_\_\_\_\_, and Rogowski, A. S.  
Selection of soil moisture parameters for synthesizing storm hydrographs. Amer. Soc. Civ. Engin., Natl. Water Resources Engin. Mtg., Los Angeles, Calif., Jan. 21-25, Proc. 2127: 1-27, illus. (Preprint.)  
  
Gburek, W. J., and Broyan, J. G.  
A natural non-point phosphate input to small streams. In Processing and Management of Agricultural Waste, Cornell Agr. Waste Mangt. Conf., Rochester, N.Y., Mar. 25-27, Proc. 1974: 39-50, illus.  
  
\_\_\_\_\_, and Heald, W. R.  
Soluble phosphate output of an agricultural watershed in Pennsylvania. Water Resources Res. 10(1): 113-118, illus.  
  
Rogowski, A. S., Engman, E. T., and Jacoby, E. L., Jr.  
Transient response of a layered, sloping soil to natural rainfall in the presence of a shallow water table: Experimental results. U.S. Dept. Agr. ARS-NE-30, 61 pp., illus.
25. McCredie, Missouri  
Rausch, D. L., and Haden, J. D.  
Columbia spillway sampler. U.S. Dept. Agr. ARS-NC-16, 8 pp., illus.



26. Coshocton, Ohio  
Glass, B. L., and Edwards, W. M.  
Pictoram in lysimeter runoff and percolation water. *Environmental Contamination and Toxicol. Bul.* 11(2): 109-112.
- Harrold, L. L., and Edwards, W. M.  
No-tillage system reduces erosion from continuous corn watersheds. *Amer. Soc. Agr. Engin. Trans.* 17(3): 414-416, illus.
- Parmelee, L. H., and McGuinness, J. L.  
Comparisons of measured and estimated daily potential evapotranspiration in a humid region. *Jour. Hydrol.* 22: 239-251.
42. Riesel, Texas  
Johnson, W. C., Van Doren, C. E., and Burnett, E.  
Summer fallow in the southern Great Plains. In *Summer Fallow in the Western United States*, U.S. Dept. Agr. Conserv. Res. Rpt. 17, chap. 5, pp. 86-109, illus.
- Ritchie, J. T., and Adams, J. E.  
Field measurement of evaporation from soil shrinkage cracks. *Soil Sci. Soc. Amer. Proc.* 38(1): 131-134, illus.
- Williams, J. R.  
Predicting sediment yield frequency for rural basins to determine man's effect on long-term sedimentation. In *Effects of Man on the Interface of the Hydrological Cycle With the Physical Environment - Symp., Paris, France*, Proc. 113: 105-108.
61. Monticello, Illinois  
Jones, B. A., Jr., and McFall, R. L.  
Water losses through surface runoff in central Illinois. *Ill. Res.* 3(1): 8-9. 1961.
- McFall, R. L., and Jones, B. A., Jr.  
Discussion: Predicting storm runoff on small experimental watersheds. *Amer. Soc. Civ. Engin. Hydrol. Div. Jour.* 87(HY2): 196-198. 1961.
- Repogle, J. A., Huggins, L. F., and Black, R. D.  
Comparison of theoretical, laboratory, and field discharge ratings of a drop inlet for a small farm pond. *Amer. Soc. Agr. Engin. Trans.* 15: 210-211, 217. 1961.
- Huggins, L. F., and Black, R. D.  
Pito-tube measurements in debris-filled flow. *Amer. Soc. Agr. Engin. Trans.* 44: 618-619. 1963.
62. Oxford, Mississippi  
Ahuja, L. R., and Romkens, M. J. M.  
A similarity during early stages of rain infiltration. *Soil Sci. Soc. Amer. Proc. (Note)* 38(3): 541-544, illus.
- Dendy, F. E.  
Sediment trap efficiency of small reservoirs. *Amer. Soc. Agr. Engin. Trans.* 17(5): 898-901, 908, illus.
- McHenry, J. R.  
Reservoir sedimentation. *Water Resources Bul.* 10(2): 329-337, illus.
- and Robinson, A. R.  
Sedimentation research in Mississippi: Progress and goals. 9th Miss. Water Resources Conf., Miss. State, Proc. 1974: 23-24.
- Piest, R. F., and Bowie, A. J.  
Gully and streambank erosion. In *Land Use: Persuasion or Regulation*, Soil Conserv. Soc. Amer., Syracuse, N.Y., Proc. 1974: 188-196, illus.
- Ritchie, J. C., McHenry, J. R., and Gill, A. C.  
Fallout <sup>137</sup>Cs in the soils and sediments of three small watersheds. *Ecology* 55(4): 887-890, illus.
- Spraberry, J. A., and McHenry, J. R.  
Estimating soil erosion from the redistribution of fallout <sup>137</sup>Cs. *Soil Sci. Soc. Amer. Proc.* 38(1): 137-139, illus.
63. Tombstone, Arizona  
Osborn, H. B., Lane, L. J., and Kagan, R. S.  
Stochastic models of spatial and temporal distribution of thunderstorm rainfall. U.S. Dept. Agr. Misc. Pub. 1275, pp. 211-231, illus.
- Renard, K. G.  
Bed material size changes and sediment transport. *Amer. Soc. Agr. Engin. Trans.* 17(6): 1001-1005, illus.
- Simanton, J. R., and Osborn, H. B.  
Applicability of the universal soil loss equation to semiarid rangeland conditions in the southwest. In *Hydrology and Water Resources in Arizona and the Southwest*, Ariz. Sect. - Amer. Water Resources Assoc. and Hydrol. Sect. - Ariz. Acad. Sci. Mtg., Flagstaff, Apr., Proc. 1974: 18-22, illus.
- Smith, R. E.  
Point processes of seasonal thunderstorm rainfall. 3. Relation of point rainfall to storm areal properties. *Water Resources Res.* 10(3): 424-426, illus.
- and Schreiber, H. A.  
Point processes of seasonal thunderstorm rainfall. 2. Rainfall depth probabilities. *Water Resources Res.* 10(3): 418-423, illus.
- Tromble, J. M.  
Increasing forage production on a semiarid rangeland watershed. In *Hydrology and Water Resources in Arizona and the Southwest*, Ariz. Sect. - Amer. Water Resources Assoc. and Hydrol. Sect. - Ariz. Acad. Sci. Mtg., Flagstaff, Apr., Proc. 1974: 33-40.
- Renard, K. G., and Thatcher, A. P.  
Infiltration for three rangeland soil-vegetation complexes. *Jour. Range Managt.* 27(4): 318-321, illus.
- Wallace, D. E., and Schreiber, H. A.  
Time-related changes in water quality of stock tanks of southeastern Arizona. In *Hydrology and Water Resources in Arizona and the Southwest*, Ariz. Sect. - Amer. Water Resources Assoc. and Hydrol. Sect. - Ariz. Acad. Sci. Mtg., Flagstaff, Apr., Proc. 1974: 144-157.
68. Reynolds, Idaho  
Stephenson, G. R., and Freeze, R. A.  
Mathematical simulation of subsurface flow contributions to snowmelt runoff, Reynolds Creek Watershed, Idaho. *Water Resources Res.* 10(2): 284-294, illus.
69. Chickasha, Oklahoma  
Blanchard, B. J.  
Measuring watershed runoff capability with ERTS data. 3d Earth Resources Technol. Satellite-1 Symp., v. 1, sect. B, pp. 1089-1098, illus.
- Chesters, G., Pionke, H. B., and Daniel, T. C.  
Extraction and analytical techniques for pesticides in soil, sediment, and water. In *Pesticides in Soil and Water*, Amer. Soc. Agron. Spec. Pub. (8) (rev.), chap. 16, pp. 451-550.

- Nicks, A. D.  
Stochastic generation of the occurrence, pattern, and location of maximum amount of daily rainfall. U.S. Dept. Agr. Misc. Pub. 1275, pp. 154-171, illus.
- Pionke, H. B., and Workman, O. D.  
Effect of two impoundments on the salinity and quantity of stored waters. Water Resources Bul. 10(1): 66-80, illus.
- Schoof, R. R.  
Improved flood control works in small watersheds. Jour. Soil and Water Conserv. 29(2): 84-86, illus.
- Yost, C., Jr., and Naney, J. W.  
Water quality effects of seepage from earthen dams. Jour. Hydrol. 21: 15-26, illus.
71. Treynor, Iowa  
Burwell, R. E., Schman, G. E., Piast, R. F., and others.  
Quality of water discharged from two agricultural watersheds in southwestern Iowa. Water Resources Res. 10(2): 359-365.
74. Tifton, Georgia  
Asmussen, L. E., Allison, H. D., and Sheridan, J. M.  
Adaptation of quartz crystal clock movement makes low-cost timers. Agr. Engin. Instrument News 1974: 29-30, illus.
- \_\_\_\_\_ and Thomas, A. W.  
Computing phreatic groundwater storage. Ga. Univ., Col. of Agr., Expt. Sta. Res. Bul. 153, 23 pp., illus.
- Gwinn, W. R.  
Hydraulic model studies of little river gaging station B. U.S. Dept. Agr. ARS-S-38, 32 pp., illus.
- Knisel, W. G., Jr.  
The role of the watershed in hydrologic research. Water Resources Symp., Fort Valley, Ga., Feb., Proc. 1974: 7-32, illus.
- Sheridan, J. M., Asmussen, L. E., and Knisel, W. G., Jr.  
Pan evaporation at the Georgia Coastal Plain Experiment Station. Ga. Expt. Sta. Res. Bul. 159, 29 pp., illus.
- Snyder, W. M., and Knisel, W. G., Jr.  
Why should we predict runoff for ungaged drainage areas? Jour. Soil and Water Conserv. 29(5): 229-232.
- General References
- Bouwer, H.  
Renovating municipal wastewater by high-rate infiltration for ground-water recharge. Amer. Water Works Assoc. Jour. 66(3): 159-162, illus.
- \_\_\_\_\_ High-rate land treatment. U.S. Army Corps Engin. Water Spectrum 6(1), pp. 18-25, illus.
- Brooks, R. H., Leclercq, P. J., Tebbs, R. R., and Rawls, W.  
Axisymmetric infiltration. Water Resources Res. Inst., Oreg. State Univ., WRR-22, 61 pp., illus.
- Burford, J. B., and Clark, J. M.  
Computer input microfilm (CIM) feasibility study. U.S. Dept. Agr. ARS-NE-46, 6 pp., illus.
- Carter, C. E., Greer, J. D., Braud, H. J., and Floyd, J. M.  
Raindrop characteristics in south central United States. Amer. Soc. Agr. Engin. Trans. 17(6): 1022-1037, illus.
- DeCoursey, D. G., and Deal, R. B.  
General aspects of multivariate analysis with applications to some problems in hydrology. U.S. Dept. Agr. Misc. Pub. 1275, pp. 47-68, illus.
- Dedrick, A. R.  
Water harvesting. Agr. Engin. 55(6): 9-10, illus.
- Farrell, D. A., Moldenhauer, W. C., and Larson, W. E.  
Splash correction factors for soil erosion studies. Soil Sci. Soc. Amer. Proc. 38(3): 510-514, illus.
- Fisher, H. D., and Bondurant, J. A.  
All-electronic counter/timer for current meters. Amer. Soc. Agr. Engin. Trans. 17(3): 412-413, illus.
- Foster, G. R., and Wischmeier, W. H.  
Evaluating irregular slopes for soil loss prediction. Amer. Soc. Agr. Engin. Trans. 17(2): 305-309, illus.
- Gardner, H. R.  
Prediction of water loss from a fallow field soil based on soil water flow theory. Soil Sci. Soc. Amer. Proc. 38(3): 379-382, illus.
- Heinemann, H. G., and Whitker, F. D.  
Soil cover governs soil loss on United States claypan soils. In Effects of Man on the Interface of the Hydrological Cycle With the Physical Environment, Paris, France, Sept. 1974 Symp., Proc. (113): 109-113, illus.
- Hershfield, D. M.  
Hydrometeorological research during the decade 1964-1974. In A Decade of Progress in Water Resources, 10th Conf., Amer. Water Resources Assoc. Proc. 19: 28-36.
- \_\_\_\_\_ The frequency of freeze-thaw cycles. Jour. Appl. Met. 13(3): 348-354, illus.
- \_\_\_\_\_ and Levy, B.  
Cross spectra of short-duration rainfall. U.S. Dept. Agr. Misc. Pub. 1275, pp. 135-146, illus.
- Kramer, L. A.  
Irrigation storage probabilities of small reservoirs. Amer. Soc. Civ. Engin. Proc., Irrig. and Drain. Div. Jour. 100(IR 4): 485-494, illus.
- Meyer, L. D.  
Overview of the urban erosion and sedimentation processes. Natl. Symp. on Urban Rainfall and Runoff and Sediment Control, Lexington, Ky., July 29-31, Proc. 1974: 15-22, illus.
- \_\_\_\_\_ and Foster, G. R.  
Stage recorder with direct float-to-pen linkage. Amer. Soc. Agr. Engin. Trans. 17(4): 666-667, illus.
- Olson, T. C., and Onstad, C. A.  
The effect of soil water supply on corn fertilizer response. Amer. Soc. Agr. Engin. Trans. 17(5): 914-916.
- Saxton, K. E., Johnson, H. P., and Shaw, R. H.  
Modeling evapotranspiration and soil moisture. Amer. Soc. Agr. Engin. Trans. 17(4): 673-677, illus.
- \_\_\_\_\_ Johnson, H. P., and Shaw, R. H.  
Watershed evapotranspiration estimated by the combination method. Amer. Soc. Agr. Engin. Trans. 17(4): 668-672, illus.
- Spomer, R. G., and Heinemann, H. G.  
Improving water quality by soil conservation and

- management practices. Mo. Acad. Sci. Symp. Trans. 7-8: 73-82, illus.
- Todorovic, P , and Woolhiser, D.  
Stochastic model of daily rainfall. U.S. Dept. Agr. Misc. Pub. 1275, pp. 232-246, illus.
- Wadleigh, C. H., Glymph, L. M., and Holtan, H. N.  
Grasslands in relation to water resources. In Grasslands of the United States: Their Economic and Ecologic Importance, Amer. Forage and Grassland Council Symp., chap. 3, pp. 15-42, illus.
- Wischmeier, W. H.  
New developments in estimating water erosion. In Land Use: Persuasion or Regulation, 29th Ann. Mtg., Soil Conserv. Soc. Amer., Syracuse, N.Y., Proc. 1974: 179-186, illus.
- Woolhiser, D. A., and Todorovic, P.  
A stochastic model of sediment yield for ephemeral streams. U.S. Dept. Agr. Misc. Pub 1275, pp. 295-308, illus.



UNITED STATES INDEX MAP AND RELATED DATA

---

[Pages 20 through 22]



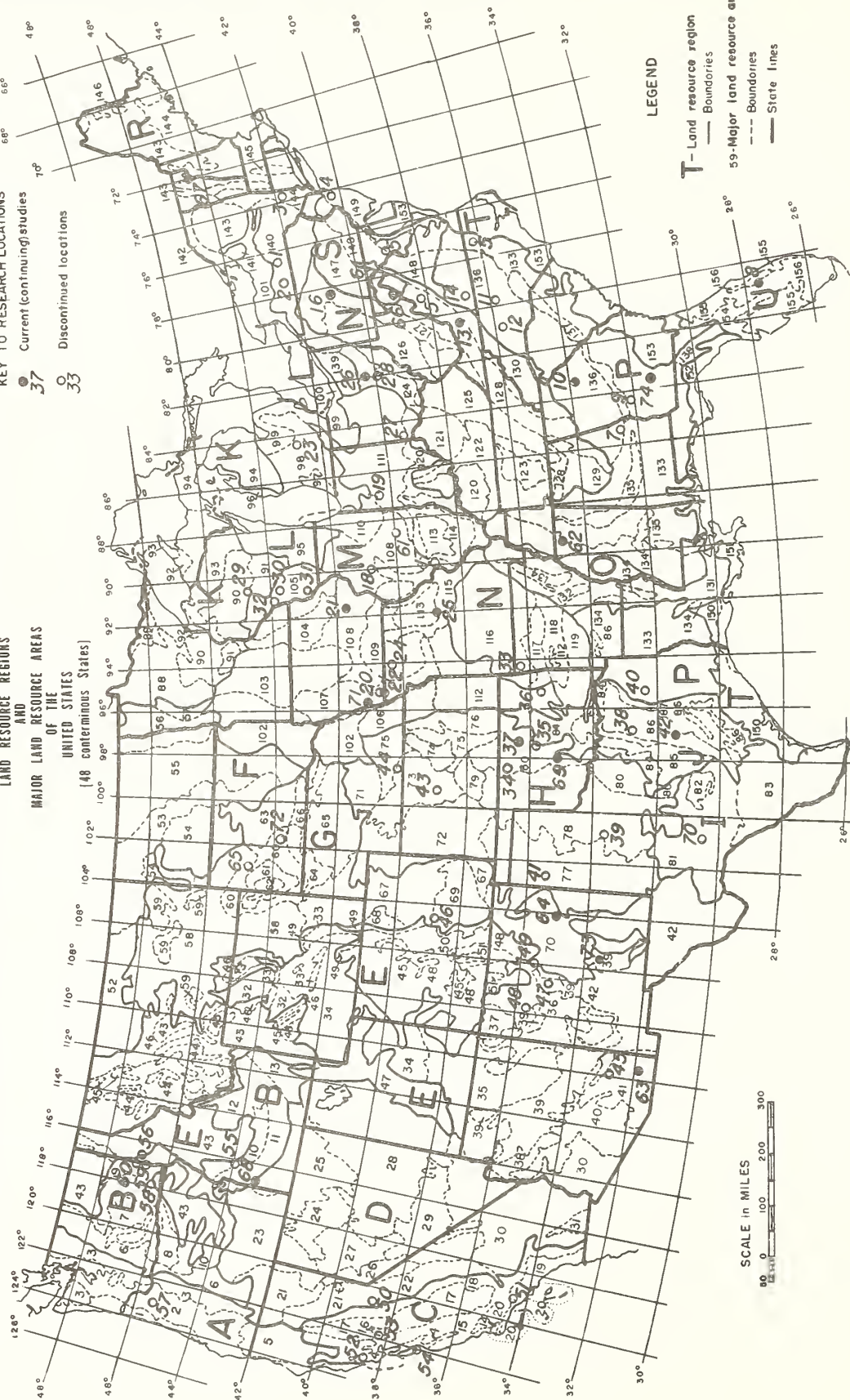
# LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1974)

BY  
LAND RESOURCE REGIONS  
AND  
MAJOR LAND RESOURCE AREAS  
OF THE  
UNITED STATES  
(48 conterminous States)

KEY TO RESEARCH LOCATIONS

● 37 Current (continuing) studies

○ 33 Discontinued locations



## LEGEND

T - Land resource region

— Boundaries

59-Major land resource area

--- Boundaries

— State lines

SCALE IN MILES  
0 100 200 300

U. S. Department of Agriculture

Land Resource Area delineations as determined by the Soil Conservation Service



# LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS (of the 48 conterminous States)

**A**

**NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION**

- 1 Northern Pacific Coast Range and Valleys
- 2 Willamette and Puget Sound Valleys
- 3 Olympic and Western Slope Cascade Mountains
- 4 California Coastal Redwood Belt
- 5 Siskiyou-Trinity Area

**B**

**NORTHWESTERN WHEAT AND RANGE REGION**

- 6 Eastern Slope Cascade Mountains
- 7 Columbia Basin
- 8 Columbia Plateau
- 9 Palouse and Nez-Perce Prairies
- 10 Upper Snake River Lava Plains and Hills
- 11 Snake River Plains
- 12 Lost River Valleys and Mountains
- 13 Eastern Idaho Plateaus

**C**

**CALIFORNIA SUBTROPICAL FRUIT, TRUCK AND SPECIALTY CROP REGION**

- 14 Central California Valleys
- 15 Central California Coast Range
- 16 California Delta
- 17 Sacramento and San Joaquin Valleys
- 18 Sierra Nevada Foothills
- 19 Southern California Coastal Plain
- 20 Southern California Mountains

**D**

**WESTERN RANGE AND IRRIGATED REGION**

- 21 Klamath and Shasta Valleys and Basins
- 22 Sierra Nevada Range
- 23 Malheur High Plateau
- 24 Humboldt Area
- 25 Owyhee High Plateau
- 26 Carson Basin and Mountains
- 27 Fallon-Lovelock Area
- 28 Great Salt Lake Area
- 29 Southern Nevada Basin and Range
- 30 Sonoran Basin and Range
- 31 Imperial Valley
- 32 Northern Inermountain Desertic Basins
- 33 Semiarid Rocky Mountain
- 34 Central Desertic Basins, Mountains and Plateaus

**E**

**ROCKY MOUNTAIN RANGE AND FOREST REGION**

- 35 Colorado and Green Rivers Plateaus
- 36 New Mexico and Arizona Plateaus and Mesas
- 37 San Juan River Valley Mesas and Plateaus
- 38 Black, Hualapai, and Cerbat Mountains
- 39 Arizona and New Mexico Mountains
- 40 Central Arizona Basin and Range
- 41 Southeastern Arizona Basin and Range
- 42 Southern Desertic Basins, Plains and Mountains

**F**

**NORTHERN GREAT PLAINS SPRING WHEAT REGION**

- 52 Brown Glaciated Plain
- 53 Dark Brown Glaciated Plain
- 54 Rolling Soft Glaciated Plain
- 55 Black Glaciated Plains
- 56 Red River Valley of the North
- 57 Western Minnesota Forest-Prairie Transition

**G**

**WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION**

- 58 Northern Rolling High Plains
- 59 Northern Smooth High Plains
- 60 Pierre Shale Plains and Badlands
- 61 Black Hills Foothills
- 62 Black Hills
- 63 Rolling Pierre Shale Plains
- 64 Mixed Sandy and Silty Tableland
- 65 Nebraska Sand Hills
- 66 Dakota-Nebraska Eroded Tableland
- 67 Central High Plains
- 68 Irrigated Upper Platte River Valley
- 69 Upper Arkansas Valley Rolling Plains
- 70 Pecos-Canadian Plains and Valleys

**H**

**CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION**

- 71 Central Nebraska Loess Hills
- 72 Central High Tableland
- 73 Rolling Plains and Breaks
- 74 Central Kansas Sandstone Hills
- 75 Central Loess Plains
- 76 Bluestem Hills
- 77 Southern High Plains
- 78 Central Rolling Red Plains
- 79 Great Bend Sand Plains
- 80 Central Rolling Red Prairies

**I**

**SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION**

- 81 Edwards Plateau
- 82 Texas Central Basin
- 83 Rio Grande Plain

**J**

**SOUTHWESTERN PRAIRIES, COTTON AND FORAGE REGION**

- 84 Cross Timbers
- 85 Grand Prairie
- 86 Texas Blackland Prairie
- 87 Texas Claypan Area

**K**

**NORTHERN LAKE STATES FOREST AND FORAGE REGION**

- 88 Northern Minnesota Swamp and Lakes
- 89 Minnesota Rockland Hills
- 90 Central Wisconsin and Minnesota Thin Loess and Till
- 91 Wisconsin and Minnesota Sandy Outwash
- 92 Superior Lake Plain
- 93 Northern Michigan and Wisconsin Stony, Sandy and Rocky Plains and Hills

**L**

**LAKE STATES FRUIT, TRUCK, AND DAIRY REGION**

- 94 Northern Michigan Sandy Drift
- 95 Southeastern Wisconsin Drift Plain
- 96 Western Michigan Fruit Belt
- 97 Southwestern Michigan Fruit Belt and Truck Belt
- 98 Southern Michigan Drift Plain
- 99 Erie-Huron Lake Plain
- 100 Erie Fruit and Truck Area
- 101 Ontario-Mohawk Plain

**M**

**CENTRAL FEED GRAINS AND LIVESTOCK REGION**

- 102 Loess, Till, and Sandy Prairies
- 103 Central Iowa and Minnesota Till Prairies
- 104 Eastern Iowa and Minnesota Till Prairies

**N**

**EAST AND CENTRAL GENERAL FARMING AND FOREST REGION**

- 112 (See M Above)
- 116 Ozark Highland
- 117 Boston Mountains
- 118 Arkansas Valley and Ridges
- 119 Ouachita Mountains
- 120 Kentucky and Indiana Sandstone and Shale Hills and Valleys
- 121 Kentucky Bluegrass
- 122 Highland Rim and Pennyroyal
- 123 Nashville Basin
- 124 Western Allegheny Plateau
- 125 Cumberland Plateau and Mountains
- 126 Central Allegheny Plateau
- 127 Eastern Allegheny Plateau and Mountains
- 128 Southern Appalachian Ridges and Valleys
- 129 Sand Mountain
- 130 Blue Ridge

**O**

**MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION**

- 131 Southern Mississippi Valley Alluvium
- 132 Eastern Arkansas Prairies
- 134 (See P below)

**P**

**SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION**

- 86 (See J Above)
- 133 Southern Coastal Plain
- 134 Southern Mississippi Valley Silty Uplands
- 135 Alabama and Mississippi Blackland Prairies
- 136 Southern Piedmont
- 137 Carolina and Georgia Sandhills
- 138 North Central Florida Ridge

**R**

**NORTHEASTERN FORAGE AND FOREST REGION**

- 139 Eastern Ohio Till Plain
- 140 Glaciated Allegheny Plateau and Catskill Mountains
- 141 Tug Hill Plateau
- 142 St. Lawrence-Champlain Plain
- 143 Northeastern Mountains
- 144 New England and Eastern New York Upland
- 145 Connecticut Valley
- 146 Aroostook Area

**S**

**NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION**

- 147 Northern Appalachian Ridges and Valleys
- 148 Northern Piedmont
- 149 Northern Coastal Plain

**T**

**ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION**

- 150 Gulf Coast Prairies
- 151 Gulf Coast Marsh
- 152 Gulf Coast Flatwoods
- 153 Atlantic Coast Flatwoods

**U**

**FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION**

- 154 South Central Florida Ridge
- 155 Southern Florida Flatwoods
- 156 Florida Everglades and Associated Areas

Information from SCS, State, and other Offices  
Compiled by Morris E. Austin

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1974 and included in this publication

| State           | Locality           | Assigned location number | Major land resource area <sup>1/</sup> | Watershed units | Events reported | Pages   |
|-----------------|--------------------|--------------------------|--|-----------------|-----------------|---------|
| Arizona.....    | Tombstone .....    | 63                       | D-41                                   | 8               | 18              | 228-266 |
| Florida.....    | Vero Beach.....    | 08                       | U-55                                   | 3               | 0               | 24- 29  |
| Georgia.....    | Watkinsville.....  | 10                       | P-136                                  | 1               | 1               | 30- 32  |
| Idaho.....      | Reynolds.....      | 68                       | D-23, D-25                             | 8               | 9               | 270-302 |
| Illinois.....   | Monticello.....    | 61                       | M-108                                  | 2               | 20              | 170-210 |
| Iowa.....       | Treynor.....       | 71                       | M-107                                  | 4               | 0               | 410-417 |
| Mississippi.... | Oxford.....        | 62                       | P-133, P-134                           | 5               | 5               | 211-227 |
| Missouri.....   | McCredie.....      | 25                       | M-113                                  | 1               | 1               | 31- 40  |
| New Mexico..... | Santa Rosa.....    | 64                       | G-70                                   | 1               | 1               | 267-269 |
| Ohio.....       | Coshocton.....     | 26                       | N-124                                  | 6               | 11              | 41- 63  |
| Oklahoma.....   | Chickasha.....     | 69                       | H-78, H-80, J-84                       | 34              | 29              | 303-409 |
|                 | Stillwater.....    | 37                       | H-80                                   | 2               | 4               | 64- 72  |
| Pennsylvania... | Klingerstown.....  | 16                       | S-147                                  | 1               | 1               | 33- 36  |
| Texas.....      | Riesel (Waco)..... | 42                       | J-86                                   | 22              | 22              | 73-169  |

<sup>1/</sup> See location map (p. 20) and legend (p. 21).

Table 4.--Watersheds, listed by State and locality, for which data were previously included but are not in this publication<sup>1/</sup>

| State        | Locality      | Major land resource area <sup>2/</sup> | Discontinued watershed units <sup>3/</sup> |                                  |  |
|--------------|---------------|--|--|----------------------------------|--|
|              |               |  | Number                                     | Record period (19--)             | Assigned location and watershed number |
| Vermont..... | Danville..... | R-144                                  | 4  | 58-76<br>60-79<br>60-75<br>60-76 | 67.001<br>67.003<br>67.004<br>67.005   |

<sup>1/</sup> For discontinued watershed studies prior to 1973, see tables in previous publications.

<sup>2/</sup> See location map (p. 20) and legend (p. 21).

<sup>3/</sup> Data not available for this publication; may be included in future references.

WATERSHED DATA BY LOCATION NUMBER  
AND  
DECIMAL PAGING

[8.002-1 TO 71.004-2, A TOTAL OF 394 DATA SHEETS]

For location by States and Land Resource Areas  
and Regions, see U.S. Index Map, page 20.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-2

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee. Lat. 27 deg. 17 min. 03 sec. N.; Long. 80 deg. 49 min. 21 sec. W.

AREA: 66880.00 acres 104.50 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |       |       |       |       |       | VERO BEACH, FLORIDA (TAYLOR CREEK) |       |       |       |       | WATERSHED W-2 |       |        |
|---|---|-------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|---------------|-------|--------|
|   |   | Jan   | Feb   | Mar   | Apr   | May   | Jun                                | Jul   | Aug   | Sep   | Oct   | Nov           | Dec   | Annual |
| 1974                                      | P | 1.25  | 0.78  | 0.10  | 3.01  | 4.33  | 9.64                               | 11.43 | 7.36  | 4.74  | 1.47  | 1.26          | 1.42  | 46.79  |
|   | Q | 0.074 | 0.061 | 0.027 | 0.111 | 0.022 | 0.832                              | 6.832 | 4.577 | 0.792 | 0.826 | 0.051         | 0.072 | 14.277 |
| STA AV                                    | P | 1.90  | 2.36  | 3.22  | 1.90  | 4.53  | 8.63                               | 6.71  | 6.86  | 5.91  | 4.09  | 1.35          | 1.52  | 48.95  |
|   | Q | 0.477 | 0.438 | 0.998 | 0.193 | 0.337 | 2.066                              | 2.274 | 2.187 | 2.545 | 1.945 | 1.834         | 0.202 | 15.495 |

NOTES: Watershed conditions: 1974: Range & forest, 39%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971; afterwards, use Okeechobee 9 SW).

| 1974 DAILY AIR TEMPERATURE (degrees F) |      |     |      |     |      |     |      |     |      | VERO BEACH, FLORIDA (TAYLOR CREEK) |      |     |      |     |      |     |      | WATERSHED W-2 |      |     |      |     |      |     |
|--|------|-----|------|-----|------|-----|------|-----|------|------------------------------------|------|-----|------|-----|------|-----|------|---------------|------|-----|------|-----|------|-----|
| Day                                    | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |                                    | Jun  |     | Jul  |     | Aug  |     | Sep  |               | Oct  |     | Nov  |     | Dec  |     |
|  | max  | min | max  | min | max  | min | max  | min | max  | min                                | max  | min | max  | min | max  | min | max  | min           | max  | min | max  | min | max  | min |
| 1                                      | 88   | 64  | 86   | 63  | 79   | 48  | 93   | 61  | 92   | 62                                 | 91   | 68  | 86   | 72  | 92   | 73  | 91   | 74            | 86   | 67  | 85   | 63  | 68   | 38  |
| 2                                      | 79   | 58  | 84   | 63  | 82   | 46  | 91   | 70  | 91   | 59                                 | 91   | 69  | 87   | 71  | 91   | 74  | 92   | 73            | 86   | 64  | 86   | 63  | 65   | 38  |
| 3                                      | 81   | 63  | 84   | 63  | 80   | 51  | 89   | 71  | 88   | 60                                 | 93   | 66  | 86   | 72  | 86   | 73  | 94   | 72            | 83   | 62  | 84   | 61  | 64   | 36  |
| 4                                      | 85   | 58  | 74   | 42  | 83   | 53  | 89   | 73  | 93   | 63                                 | 89   | 65  | 86   | 73  | 86   | 74  | 93   | 75            | 81   | 62  | 84   | 58  | 65   | 40  |
| 5                                      | 85   | 51  | 75   | 61  | 85   | 52  | 84   | 50  | 90   | 66                                 | 94   | 70  | 86   | 73  | 91   | 72  | 94   | 75            | 88   | 71  | 87   | 60  | 74   | 54  |
| 6                                      | 74   | 63  | 80   | 64  | 85   | 61  | 87   | 49  | 87   | 63                                 | 95   | 68  | 87   | 71  | 88   | 73  | 94   | 75            | 76   | 72  | 88   | 64  | 76   | 52  |
| 7                                      | 86   | 59  | 85   | 68  | 87   | 58  | 89   | 55  | 84   | 57                                 | 93   | 71  | 91   | 74  | 87   | 75  | 94   | 75            | 78   | 71  | 86   | 60  | 78   | 60  |
| 8                                      | 84   | 59  | 85   | 52  | 87   | 61  | 85   | 64  | 89   | 57                                 | 92   | 69  | 90   | 72  | 90   | 73  | 94   | 75            | 82   | 66  | 85   | 59  | 79   | 45  |
| 9                                      | 84   | 57  | 59   | 36  | 88   | 57  | 83   | 48  | 91   | 65                                 | 90   | 68  | 91   | 74  | 92   | 73  | 94   | 75            | 85   | 65  | 75   | 58  | 65   | 34  |
| 10                                     | 84   | 57  | 62   | 38  | 89   | 54  | 80   | 60  | 92   | 66                                 | 91   | 68  | 89   | 73  | 95   | 74  | 96   | 75            | 83   | 64  | 82   | 55  | 66   | 45  |
| 11                                     | 84   | 56  | 69   | 34  | 85   | 60  | 81   | 68  | 92   | 77                                 | 92   | 67  | 93   | 75  | 93   | 72  | 93   | 74            | 85   | 66  | 86   | 54  | 74   | 48  |
| 12                                     | 84   | 58  | 75   | 40  | 86   | 63  | 85   | 70  | 92   | 65                                 | 92   | 66  | 88   | 71  | 87   | 74  | 94   | 76            | 84   | 62  | 79   | 44  | 78   | 60  |
| 13                                     | 80   | 63  | 79   | 42  | 85   | 55  | 89   | 61  | 91   | 63                                 | 93   | 69  | 86   | 70  | 91   | 69  | 97   | 72            | 85   | 69  | 74   | 50  | 80   | 62  |
| 14                                     | 78   | 67  | 81   | 48  | 83   | 64  | 89   | 69  | 90   | 64                                 | 92   | 68  | 89   | 69  | 95   | 74  | 94   | 72            | 88   | 66  | 84   | 64  | 75   | 66  |
| 15                                     | 79   | 59  | 84   | 60  | 74   | 62  | 91   | 64  | 87   | 65                                 | 87   | 64  | 90   | 74  | 96   | 74  | 93   | 74            | 90   | 71  | 83   | 66  | 74   | 65  |
| 16                                     | 85   | 60  | 76   | 54  | 84   | 60  | 92   | 64  | 89   | 66                                 | 87   | 68  | 90   | 71  | 95   | 73  | 92   | 74            | 91   | 72  | 85   | 62  | 74   | 54  |
| 17                                     | 81   | 58  | 70   | 39  | 80   | 41  | 80   | 57  | 88   | 67                                 | 94   | 70  | 92   | 69  | 93   | 70  | 94   | 70            | 88   | 60  | 84   | 68  | 68   | 34  |
| 18                                     | 84   | 58  | 75   | 61  | 80   | 43  | 64   | 52  | 88   | 66                                 | 94   | 67  | 87   | 72  | 90   | 72  | 94   | 74            | 80   | 58  | 89   | 62  | 66   | 44  |
| 19                                     | 83   | 58  | 81   | 54  | 85   | 62  | 83   | 51  | 88   | 65                                 | 93   | 68  | 90   | 70  | 92   | 74  | 92   | 73            | 82   | 58  | 86   | 62  | 74   | 60  |
| 20                                     | 83   | 57  | 82   | 62  | 88   | 66  | 81   | 60  | 89   | 67                                 | 92   | 70  | 94   | 73  | 94   | 72  | 92   | 74            | 80   | 57  | 87   | 49  | 82   | 67  |
| 21                                     | 88   | 59  | 86   | 67  | 91   | 68  | 82   | 60  | 90   | 66                                 | 88   | 67  | 93   | 72  | 95   | 71  | 90   | 71            | 79   | 66  | 76   | 46  | 75   | 56  |
| 22                                     | 87   | 57  | 87   | 46  | 87   | 71  | 87   | 66  | 91   | 68                                 | 95   | 73  | 93   | 70  | 91   | 73  | 91   | 74            | 78   | 73  | 75   | 44  | 76   | 48  |
| 23                                     | 83   | 59  | 77   | 57  | 84   | 70  | 85   | 63  | 87   | 71                                 | 87   | 73  | 92   | 73  | 89   | 72  | 93   | 74            | 84   | 72  | 79   | 50  | 78   | 58  |
| 24                                     | 84   | 65  | 76   | 55  | 90   | 66  | 87   | 56  | 92   | 68                                 | 80   | 72  | 93   | 73  | 91   | 72  | 90   | 75            | 83   | 71  | 82   | 56  | 80   | 56  |
| 25                                     | 80   | 58  | 68   | 33  | 91   | 68  | 83   | 50  | 94   | 67                                 | 77   | 72  | 95   | 72  | 88   | 71  | 93   | 74            | 84   | 72  | 82   | 58  | 82   | 64  |
| 26                                     | 83   | 62  | 58   | 36  | 93   | 65  | 82   | 58  | 95   | 71                                 | 85   | 76  | 95   | 73  | 92   | 74  | 92   | 75            | 84   | 67  | 78   | 63  | 78   | 62  |
| 27                                     | 83   | 67  | 69   | 46  | 92   | 68  | 81   | 53  | 90   | 68                                 | 87   | 73  | 89   | 72  | 92   | 72  | 93   | 76            | 83   | 64  | 76   | 54  | 80   | 58  |
| 28                                     | 83   | 62  | 73   | 48  | 89   | 68  | 83   | 56  | 93   | 68                                 | 81   | 72  | 90   | 73  | 90   | 74  | 96   | 74            | 82   | 60  | 74   | 52  | 81   | 56  |
| 29                                     | 82   | 59  |      |     | 89   | 70  | 85   | 52  | 91   | 66                                 | 90   | 73  | 89   | 74  | 92   | 73  | 94   | 75            | 84   | 63  | 78   | 57  | 80   | 56  |
| 30                                     | 87   | 64  |      |     | 88   | 53  | 88   | 54  | 93   | 72                                 | 88   | 73  | 85   | 75  | 92   | 74  | 90   | 69            | 85   | 62  | 70   | 62  | 84   | 60  |
| 31                                     | 86   | 64  |      |     | 92   | 58  |      |     | 92   | 65                                 |      |     | 90   | 72  | 91   | 71  |      |               | 86   | 62  |      |     | 85   | 58  |
| AV.                                    | 83   | 60  | 76   | 51  | 86   | 59  | 85   | 60  | 90   | 66                                 | 90   | 69  | 90   | 72  | 91   | 73  | 93   | 74            | 84   | 66  | 82   | 57  | 75   | 53  |
| MEAN                                   | 71.6 |     | 63.8 |     | 72.7 |     | 72.3 |     | 78.0 |                                    | 79.6 |     | 81.0 |     | 82.0 |     | 83.5 |               | 74.7 |     | 69.6 |     | 63.9 |     |
| STA AV                                 | 72   | 51  | 74   | 50  | 78   | 55  | 83   | 61  | 88   | 66                                 | 89   | 71  | 92   | 74  | 92   | 74  | 91   | 73            | 87   | 66  | 79   | 56  | 74   | 52  |

NOTES: Temperature data from R-3, readings taken daily. STA AV period from July 1, 1956 through 1974.

| 1974   | DAILY PRECIPITATION (inches) |       |      |      |      | VERO BEACH, FLORIDA (TAYLOR CREEK) |       |       |      |       | WATERSHED W-2 |       |
|--------|------------------------------|-------|------|------|------|------------------------------------|-------|-------|------|-------|---------------|-------|
| Day    | Jan                          | Feb   | Mar  | Apr  | May  | Jun                                | Jul   | Aug   | Sep  | Oct   | Nov           | Dec   |
| 1      | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.0 T                              | 0.70  | 0.04  | 0.0  | 0.0 T | 0.0 T         | 0.01  |
| 2      | 0.03                         | 0.0 T | 0.0  | 1.29 | 0.0  | 0.25                               | 0.30  | 0.05  | 0.0  | 0.0   | 0.0           | 0.0   |
| 3      | 0.0                          | 0.01  | 0.0  | 0.0  | 0.0  | 0.72                               | 0.37  | 0.16  | 0.0  | 0.0   | 0.02          | 0.0   |
| 4      | 0.0                          | 0.0   | 0.0  | 0.0  | 0.10 | 0.13                               | 0.35  | 0.24  | 0.0  | 0.0   | 0.0           | 0.0   |
| 5      | 0.0                          | 0.0   | 0.0  | 0.47 | 0.02 | 0.15                               | 0.17  | 0.99  | 0.08 | 0.0   | 0.0           | 0.0   |
| 6      | 0.12                         | 0.0   | 0.0  | 0.0  | 0.01 | 0.22                               | 0.58  | 0.07  | 0.02 | 1.14  | 0.0           | 0.0   |
| 7      | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.09                               | 0.01  | 0.11  | 0.02 | 0.0   | 0.0           | 0.0   |
| 8      | 0.0                          | 0.05  | 0.0  | 0.0  | 0.77 | 0.0                                | 0.01  | 0.34  | 0.17 | 0.0   | 0.0           | 0.0   |
| 9      | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.01                               | 0.0   | 0.0   | 0.64 | 0.0   | 0.01          | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.09                               | 0.03  | 0.11  | 0.0  | 0.0   | 0.03          | 0.0   |
| 11     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.15                               | 0.0   | 0.08  | 0.05 | 0.0   | 0.0           | 0.0   |
| 12     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.0                                | 1.47  | 0.0 T | 0.0  | 0.0   | 0.0           | 0.0 T |
| 13     | 0.25                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0   | 0.0   | 0.03 | 0.0   | 0.0           | 0.03  |
| 14     | 0.22                         | 0.0   | 0.0  | 0.0  | 0.18 | 0.03                               | 0.0   | 0.0   | 0.14 | 0.0   | 0.0           | 0.01  |
| 15     | 0.01                         | 0.0   | 0.10 | 0.0  | 0.51 | 0.22                               | 0.01  | 0.0   | 0.0  | 0.0   | 0.0           | 0.31  |
| 16     | 0.0                          | 0.40  | 0.0  | 1.23 | 0.16 | 0.25                               | 0.27  | 0.03  | 0.0  | 0.07  | 0.0           | 0.65  |
| 17     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.0                                | 1.69  | 1.12  | 0.0  | 0.0   | 0.0           | 0.20  |
| 18     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.0                                | 0.23  | 0.07  | 0.0  | 0.0 T | 0.27          | 0.0   |
| 19     | 0.0                          | 0.31  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0 T | 1.05  | 0.32 | 0.0   | 0.01          | 0.0   |
| 20     | 0.0                          | 0.01  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.30  | 0.0   | 0.03 | 0.0   | 0.01          | 0.0   |
| 21     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.08                               | 0.37  | 0.31  | 0.01 | 0.0   | 0.0           | 0.04  |
| 22     | 0.0 T                        | 0.0   | 0.0  | 0.0  | 0.0  | 0.39                               | 1.88  | 0.0   | 0.0  | 0.0 T | 0.0           | 0.0   |
| 23     | 0.0                          | 0.0   | 0.0  | 0.02 | 0.05 | 0.0                                | 0.04  | 0.14  | 0.57 | 0.0 T | 0.0           | 0.0   |
| 24     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.01 | 1.11                               | 0.02  | 0.91  | 0.0  | 0.0 T | 0.0           | 0.0   |
| 25     | 0.02                         | 0.0   | 0.0  | 0.0  | 0.0  | 3.46                               | 0.57  | 0.18  | 0.28 | 0.01  | 0.0           | 0.0   |
| 26     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.17 | 0.55                               | 0.25  | 0.0   | 0.18 | 0.0   | 0.01          | 0.03  |
| 27     | 0.0                          | 0.0   | 0.0  | 0.0  | 0.0  | 0.46                               | 0.42  | 0.0   | 0.04 | 0.23  | 0.72          | 0.14  |
| 28     | 0.23                         | 0.0 T | 0.0  | 0.0  | 0.54 | 0.68                               | 0.69  | 0.53  | 0.50 | 0.0 T | 0.0 T         | 0.0 T |
| 29     | 0.32                         | 0.0   | 0.0  | 0.0  | 0.61 | 0.48                               | 0.55  | 0.83  | 0.0  | 0.0 T | 0.0           | 0.0   |
| 30     | 0.05                         | 0.0   | 0.0  | 0.0  | 0.0  | 0.12                               | 0.06  | 0.0   | 1.66 | 0.0 T | 0.18          | 0.0   |
| 31     | 0.0                          | 0.0   | 0.0  | 0.0  | 1.20 | 0.0                                | 0.09  | 0.0   | 0.0  | 0.02  | 0.0           | 0.0   |
| TOTAL  | 1.25                         | 0.78  | 0.10 | 3.01 | 4.33 | 9.64                               | 11.43 | 7.36  | 4.74 | 1.47  | 1.26          | 1.42  |
| STA AV | 1.90                         | 2.36  | 3.22 | 1.90 | 4.53 | 8.63                               | 6.71  | 6.86  | 5.91 | 4.09  | 1.35          | 1.52  |

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV based on period July 1, 1955 through 1974.

| 1974   | MEAN DAILY DISCHARGE (cfs) |       |       |       |       | VERO BEACH, FLORIDA (TAYLOR CREEK) |        |        |       |       | WATERSHED W-2 |       |
|--------|----------------------------|-------|-------|-------|-------|------------------------------------|--------|--------|-------|-------|---------------|-------|
| Day    | Jan                        | Feb   | Mar   | Apr   | May   | Jun                                | Jul    | Aug    | Sep   | Oct   | Nov           | Dec   |
| 1      | 25.0                       | 43.0  | 24.0  | 0.0   | 4.3   | 9.1                                | 250.0  | 398.0  | 265.0 | 657.0 | 0.0           | 0.0   |
| 2      | 0.0                        | 0.0   | 0.0   | 5.0   | 0.0   | 0.0                                | 310.0  | 308.0  | 155.0 | 291.0 | 0.0           | 0.0   |
| 3      | 0.7                        | 0.0   | 0.0   | 45.0  | 0.0   | 0.0                                | 760.0  | 192.0  | 88.0  | 101.0 | 0.0           | 28.0  |
| 4      | 11.0                       | 14.0  | 0.0   | 0.0   | 0.0   | 0.0                                | 520.0  | 196.0  | 63.0  | 91.0  | 2.4           | 0.0   |
| 5      | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 28.0                               | 450.0  | 349.0  | 38.0  | 58.0  | 2.3           | 0.0   |
| 6      | 0.0                        | 0.0   | 0.0   | 28.0  | 0.0   | 0.0                                | 380.0  | 974.0  | 30.0  | 100.0 | 0.0           | 0.0   |
| 7      | 15.0                       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 470.0  | 697.0  | 55.0  | 306.0 | 0.0           | 0.0   |
| 8      | 0.0                        | 0.0   | 9.5   | 37.0  | 0.1   | 0.0                                | 600.0  | 416.0  | 11.0  | 245.0 | 19.0          | 0.0   |
| 9      | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 29.0                               | 350.0  | 464.0  | 41.0  | 148.0 | 0.0           | 25.0  |
| 10     | 0.0                        | 28.0  | 0.0   | 0.0   | 0.0   | 0.0                                | 200.0  | 315.0  | 260.0 | 69.0  | 0.0           | 0.0   |
| 11     | 28.0                       | 0.0   | 0.6   | 33.0  | 0.5   | 0.0                                | 189.0  | 360.0  | 134.0 | 32.0  | 0.0           | 0.0   |
| 12     | 0.0                        | 0.0   | 2.5   | 0.0   | 0.0   | 0.0                                | 237.0  | 259.0  | 71.0  | 25.0  | 0.0           | 0.0   |
| 13     | 0.0                        | 16.0  | 0.0   | 0.0   | 0.0   | 0.0                                | 240.0  | 224.0  | 60.0  | 29.0  | 17.0          | 0.0   |
| 14     | 29.0                       | 0.0   | 0.0   | 0.0   | 0.0   | 1.0                                | 187.0  | 150.0  | 51.0  | 22.0  | 0.0           | 0.0   |
| 15     | 0.0                        | 0.0   | 20.0  | 34.0  | 2.3   | 40.0                               | 230.0  | 109.0  | 61.0  | 33.0  | 0.0           | 23.0  |
| 16     | 39.0                       | 0.0   | 0.0   | 5.6   | 24.0  | 0.0                                | 208.0  | 85.0   | 52.0  | 7.6   | 0.0           | 0.0   |
| 17     | 0.0                        | 47.0  | 0.0   | 3.0   | 0.0   | 0.0                                | 495.0  | 99.0   | 33.0  | 26.0  | 7.3           | 32.0  |
| 18     | 0.0                        | 0.0   | 0.0   | 36.0  | 0.0   | 0.0                                | 1240.0 | 454.0  | 28.0  | 17.0  | 21.0          | 25.0  |
| 19     | 30.0                       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 1020.0 | 460.0  | 22.0  | 0.0   | 5.0           | 0.0   |
| 20     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 690.0  | 950.0  | 31.0  | 0.0   | 5.8           | 0.0   |
| 21     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 587.0  | 505.0  | 33.0  | 14.0  | 28.0          | 0.0   |
| 22     | 0.0                        | 24.0  | 19.0  | 34.0  | 0.0   | 30.0                               | 557.0  | 359.0  | 0.0   | 0.0   | 0.0           | 0.0   |
| 23     | 16.0                       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 1370.0 | 243.0  | 16.0  | 7.4   | 0.0           | 0.0   |
| 24     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                | 1080.0 | 262.0  | 51.0  | 0.0   | 0.0           | 0.0   |
| 25     | 0.0                        | 0.0   | 0.0   | 17.0  | 0.0   | 170.0                              | 802.0  | 660.0  | 46.0  | 0.0   | 0.0           | 0.0   |
| 26     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 480.0                              | 916.0  | 572.0  | 53.0  | 23.0  | 4.1           | 36.0  |
| 27     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 390.0                              | 766.0  | 380.0  | 61.0  | 0.4   | 0.0           | 0.0   |
| 28     | 14.0                       | 0.0   | 0.0   | 0.0   | 0.0   | 370.0                              | 992.0  | 339.0  | 75.0  | 0.0   | 0.0           | 0.0   |
| 29     | 0.0                        | 0.0   | 0.0   | 0.0   | 0.0   | 430.0                              | 1130.0 | 616.0  | 185.0 | 0.0   | 0.0           | 32.0  |
| 30     | 0.0                        | 0.0   | 0.0   | 34.0  | 0.6   | 360.0                              | 1160.0 | 973.0  | 157.0 | 19.0  | 31.0          | 0.0   |
| 31     | 0.0                        | 0.0   | 0.0   | 0.0   | 30.0  | 0.0                                | 812.0  | 493.0  | 0.0   | 0.0   | 0.0           | 0.0   |
| MEAN   | 6.70                       | 6.14  | 2.44  | 10.39 | 1.99  | 77.90                              | 619.29 | 414.87 | 74.20 | 74.88 | 4.76          | 6.48  |
| INCHES | 0.074                      | 0.061 | 0.027 | 0.111 | 0.022 | 0.832                              | 6.832  | 4.577  | 0.792 | 0.826 | 0.051         | 0.072 |
| STA AV | 0.477                      | 0.438 | 0.998 | 0.193 | 0.337 | 2.066                              | 2.274  | 2.187  | 2.545 | 1.945 | 1.834         | 0.202 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00035589. Discharge is combined flow from Williamson Ditch and S-1 structure. Runoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.



VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3

LOCATION: Okeechobee County, Florida. Runoff gaging site is approximately 11 mi. (airline) N-W of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed. Lat. 27 deg. 23 min. 24 sec. N.; Long. 80 deg. 53 min. 42 sec. W.

AREA: 12224.00 acres 19.10 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches) |       |       |       |       |       |       |       |       |       |       |       |       | VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual   |
| 1974 P                                    | 1.56  | 1.15  | 0.10  | 3.83  | 3.09  | 10.14 | 9.81  | 7.40  | 5.91  | 1.17  | 1.00  | 1.70  | 46.86  |
| Q   | 0.125 | 0.074 | 0.029 | 0.128 | 0.001 | 0.974 | 8.059 | 4.667 | 1.975 | 1.325 | 0.022 | 0.032 | 17.412   |
| STA AV P                                  | 1.81  | 2.36  | 3.18  | 2.21  | 4.41  | 7.97  | 6.94  | 6.81  | 5.67  | 3.96  | 1.26  | 1.47  | 48.05  |
| Q   | 0.431 | 0.327 | 0.954 | 0.175 | 0.252 | 1.540 | 2.237 | 2.234 | 2.545 | 1.748 | 1.059 | 0.148 | 13.650   |

NOTES: Watershed conditions: 1974: Improved pasture, 41%; range & forest, 48%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages beginning Jan. 1, 1967. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971; afterwards use Okeechobee 9 SW).

| 1974 DAILY PRECIPITATION (inches) |       |      |      |      |      |       |       |      |       |       |       |       | VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3 |
|-----------------------------------|-------|------|------|------|------|-------|-------|------|-------|-------|-------|-------|--|
| Day                               | Jan   | Feb  | Mar  | Apr  | May  | Jun   | Jul   | Aug  | Sep   | Oct   | Nov   | Dec   |  |
| 1                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 T | 1.15  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01   |
| 2                                 | 0.04  | 0.0  | 0.0  | 1.71 | 0.0  | 0.56  | 0.35  | 0.16 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 3                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.12  | 0.43  | 0.53 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 4                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.17  | 0.38  | 0.19 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 5                                 | 0.0   | 0.0  | 0.0  | 0.63 | 0.01 | 0.02  | 0.19  | 0.85 | 0.07  | 0.0   | 0.0   | 0.0   | 0.0  |
| 6                                 | 0.10  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0   | 0.59  | 0.01 | 0.01  | 0.92  | 0.0   | 0.0   | 0.0  |
| 7                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.02  | 0.06 | 0.04  | 0.0   | 0.0   | 0.0   | 0.0  |
| 8                                 | 0.0   | 0.10 | 0.0  | 0.0  | 0.40 | 0.0   | 0.0 T | 0.0  | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  |
| 9                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.04  | 0.0   | 0.0  | 2.23  | 0.0   | 0.01  | 0.0   | 0.0  |
| 10                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.30  | 0.10  | 0.49 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 11                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.10  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 12                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.55  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 13                                | 0.24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.06  | 0.0   | 0.0   | 0.01  | 0.0  |
| 14                                | 0.09  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0   | 0.0   | 0.0  | 0.20  | 0.0   | 0.0   | 0.0 T | 0.0  |
| 15                                | 0.0   | 0.0  | 0.10 | 0.0  | 0.51 | 0.29  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.35  | 0.0  |
| 16                                | 0.0   | 0.39 | 0.0  | 1.49 | 0.05 | 0.16  | 0.11  | 0.10 | 0.0   | 0.0   | 0.0   | 0.80  | 0.0  |
| 17                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.86  | 1.20 | 0.0   | 0.0   | 0.0   | 0.19  | 0.0  |
| 18                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.12  | 0.0  | 0.0   | 0.0   | 0.01  | 0.0   | 0.0  |
| 19                                | 0.0   | 0.65 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 1.38 | 0.05  | 0.0   | 0.01  | 0.0   | 0.0  |
| 20                                | 0.0   | 0.01 | 0.0  | 0.0  | 0.0  | 0.0   | 0.21  | 0.0  | 0.12  | 0.0   | 0.0 T | 0.0   | 0.0  |
| 21                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.03  | 0.18  | 0.0  | 0.0 T | 0.0   | 0.0   | 0.11  | 0.0  |
| 22                                | 0.02  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23  | 1.84  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 23                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.09 | 0.0   | 0.0   | 0.21 | 0.12  | 0.0   | 0.0   | 0.01  | 0.0  |
| 24                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.02 | 1.05  | 0.09  | 0.56 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 25                                | 0.0 T | 0.0  | 0.0  | 0.0  | 0.0  | 4.18  | 0.44  | 0.06 | 0.35  | 0.0   | 0.0   | 0.0   | 0.0  |
| 26                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.70  | 0.18  | 0.0  | 0.11  | 0.0   | 0.0   | 0.05  | 0.0  |
| 27                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.77  | 0.34  | 0.0  | 0.01  | 0.25  | 0.80  | 0.16  | 0.0  |
| 28                                | 0.69  | 0.0  | 0.0  | 0.0  | 0.61 | 0.64  | 0.87  | 1.42 | 0.68  | 0.0   | 0.01  | 0.01  | 0.0  |
| 29                                | 0.24  | 0.0  | 0.0  | 0.0  | 0.77 | 0.48  | 0.78  | 0.18 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 30                                | 0.14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30  | 0.03  | 0.0  | 1.57  | 0.0 T | 0.16  | 0.0   | 0.0  |
| 31                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.48 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| TOTAL                             | 1.56  | 1.15 | 0.10 | 3.83 | 3.09 | 10.14 | 9.81  | 7.40 | 5.91  | 1.17  | 1.00  | 1.70  |  |
| STA AV                            | 1.81  | 2.36 | 3.18 | 2.21 | 4.41 | 7.97  | 6.94  | 6.81 | 5.67  | 3.96  | 1.26  | 1.47  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-2, p. 08.002-1. Thiessen weighted average of 3 rain gages. STA AV based on period July 1, 1955 through 1974.

| 1974 MEAN DAILY DISCHARGE (cfs) VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED #3 |       |       |       |       |       |        |        |        |        |        |       |       |
|---|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    | Oct    | Nov   | Dec   |
| 1   | 3.00  | 2.80  | 1.00  | 0.10  | 0.20  | 0.70   | 111.00 | 74.00  | 65.00  | 109.00 | 0.50  | 0.50  |
| 2   | 3.00  | 2.60  | 0.90  | 0.10  | 0.10  | 0.80   | 276.00 | 51.00  | 54.00  | 83.00  | 0.40  | 0.40  |
| 3   | 2.60  | 2.20  | 0.80  | 4.10  | 0.10  | 2.40   | 188.00 | 40.00  | 45.00  | 59.00  | 0.40  | 0.40  |
| 4   | 2.60  | 2.00  | 0.70  | 3.80  | 0.10  | 3.00   | 170.00 | 49.00  | 35.00  | 44.00  | 0.40  | 0.40  |
| 5   | 2.40  | 1.80  | 0.60  | 3.40  | 0.0   | 2.60   | 192.00 | 90.00  | 25.00  | 30.00  | 0.40  | 0.40  |
| 6   | 2.40  | 1.60  | 0.60  | 3.40  | 0.0   | 2.00   | 133.00 | 176.00 | 17.00  | 27.00  | 0.40  | 0.40  |
| 7   | 2.60  | 1.00  | 0.60  | 3.20  | 0.0   | 2.00   | 149.00 | 114.00 | 12.00  | 65.00  | 0.40  | 0.30  |
| 8   | 2.60  | 1.20  | 0.60  | 3.00  | 0.0   | 1.80   | 96.00  | 82.00  | 10.00  | 59.00  | 0.30  | 0.30  |
| 9   | 2.20  | 1.40  | 0.70  | 2.60  | 0.0   | 1.80   | 79.00  | 72.00  | 62.00  | 46.00  | 0.30  | 0.30  |
| 10  | 2.00  | 1.40  | 0.60  | 2.40  | 0.0   | 1.60   | 63.00  | 72.00  | 186.00 | 34.00  | 0.30  | 0.30  |
| 11  | 2.00  | 1.40  | 0.60  | 2.40  | 0.0   | 0.90   | 53.00  | 140.00 | 89.00  | 24.00  | 0.30  | 0.30  |
| 12  | 1.80  | 1.00  | 0.60  | 2.20  | 0.0   | 0.80   | 57.00  | 53.00  | 63.00  | 17.00  | 0.30  | 0.30  |
| 13  | 2.00  | 0.70  | 0.60  | 2.00  | 0.0   | 1.00   | 89.00  | 35.00  | 48.00  | 14.00  | 0.30  | 0.30  |
| 14  | 2.40  | 0.70  | 0.50  | 1.80  | 0.0   | 1.00   | 51.00  | 24.00  | 48.00  | 12.00  | 0.30  | 0.30  |
| 15  | 2.40  | 0.70  | 0.50  | 1.40  | 0.0   | 0.90   | 37.00  | 15.00  | 30.00  | 10.00  | 0.30  | 0.30  |
| 16  | 2.20  | 0.60  | 0.60  | 1.80  | 0.0   | 1.00   | 27.00  | 10.00  | 22.00  | 8.60   | 0.30  | 0.60  |
| 17  | 2.00  | 1.00  | 0.60  | 5.10  | 0.0   | 2.40   | 24.00  | 15.00  | 16.00  | 7.20   | 0.30  | 1.60  |
| 18  | 1.80  | 1.00  | 0.50  | 3.40  | 0.0   | 2.80   | 62.00  | 90.00  | 13.00  | 6.50   | 0.30  | 1.00  |
| 19  | 1.80  | 1.00  | 0.40  | 2.80  | 0.0   | 2.80   | 59.00  | 160.00 | 11.00  | 5.40   | 0.40  | 0.80  |
| 20  | 1.80  | 1.40  | 0.40  | 2.40  | 0.0   | 2.20   | 37.00  | 272.00 | 8.90   | 4.50   | 0.40  | 0.70  |
| 21  | 1.40  | 2.00  | 0.30  | 2.20  | 0.0   | 2.00   | 25.00  | 81.00  | 8.10   | 6.20   | 0.40  | 0.60  |
| 22  | 1.20  | 1.80  | 0.30  | 2.00  | 0.0   | 2.20   | 149.00 | 53.00  | 6.70   | 3.80   | 0.40  | 0.70  |
| 23  | 1.20  | 1.60  | 0.30  | 1.80  | 0.0   | 2.00   | 715.00 | 40.00  | 6.20   | 1.10   | 0.40  | 0.60  |
| 24  | 1.20  | 1.40  | 0.30  | 1.60  | 0.0   | 2.60   | 148.00 | 48.00  | 5.90   | 0.10   | 0.40  | 0.60  |
| 25  | 1.20  | 1.00  | 0.30  | 1.80  | 0.0   | 39.00  | 100.00 | 49.00  | 5.70   | 0.50   | 0.40  | 0.60  |
| 26  | 1.00  | 1.00  | 0.30  | 1.60  | 0.0   | 38.00  | 134.00 | 40.00  | 7.50   | 0.60   | 0.40  | 0.50  |
| 27  | 1.00  | 0.90  | 0.30  | 1.20  | 0.0   | 68.00  | 94.00  | 34.00  | 6.20   | 0.60   | 0.50  | 0.60  |
| 28  | 1.20  | 0.90  | 0.20  | 0.90  | 0.0   | 116.00 | 147.00 | 93.00  | 11.00  | 0.80   | 0.60  | 0.60  |
| 29  | 3.40  |       | 0.20  | 0.60  | 0.0   | 87.00  | 239.00 | 131.00 | 66.00  | 0.60   | 0.50  | 0.60  |
| 30  | 3.00  |       | 0.10  | 0.40  | 0.0   | 109.00 | 314.00 | 113.00 | 31.00  | 0.70   | 0.50  | 0.50  |
| 31  | 2.80  |       | 0.10  |       | 0.10  |        | 121.00 | 81.00  |        | 0.50   |       | 0.40  |
| MEAN  | 2.07  | 1.36  | 0.49  | 2.18  | 0.02  | 16.68  | 133.52 | 77.32  | 33.81  | 21.96  | 0.38  | 0.52  |
| INCHES  | 0.125 | 0.074 | 0.029 | 0.128 | 0.001 | 0.974  | 8.059  | 4.667  | 1.975  | 1.325  | 0.022 | 0.032 |
| STA AV  | 0.431 | 0.327 | 0.954 | 0.175 | 0.252 | 1.540  | 2.237  | 2.234  | 2.545  | 1.748  | 1.059 | 0.148 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00194712. Runoff data furnished by U.S. Geological Survey.

VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okeechobee, Florida. Lat. 27 deg. 18 min. 40 sec. N.; Long. 80 deg. 53 min. 44 sec. W.

AREA: 22656.00 acres 35.40 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |       |       |       |       | VERO BEACH, FLORIDA (WILLIAMSON DITCH) |       |       |       |       |       | WATERSHED W-5 |       |        |
|---|---|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|---------------|-------|--------|
|   |   | Jan   | Feb   | Mar   | Apr   | May                                    | Jun   | Jul   | Aug   | Sep   | Oct   | Nov           | Dec   | Annual |
| 1974                                      | P | 0.83  | 0.68  | 0.16  | 1.95  | 5.49                                   | 9.04  | 10.96 | 7.38  | 4.33  | 1.65  | 1.30          | 1.35  | 45.12  |
|   | Q | 0.095 | 0.075 | 0.085 | 0.055 | 0.038                                  | 0.769 | 6.658 | 4.002 | 0.699 | 0.795 | 0.096         | 0.122 | 13.489 |
| STA AV                                    | P | 2.00  | 2.24  | 3.01  | 1.01  | 4.57                                   | 10.34 | 7.77  | 7.55  | 5.01  | 4.89  | 1.35          | 1.34  | 51.08  |
|   | Q | 0.550 | 0.343 | 0.845 | 0.178 | 0.284                                  | 2.419 | 3.045 | 2.787 | 1.627 | 1.834 | 0.558         | 0.311 | 14.779 |

NOTES: Watershed Conditions: 1974: Vegetative cover: Improved pasture - 60%; unimproved pasture and range with little timber - 15%; woodland - 10%; citrus - 5%; marsh-swamp - 5%; urban, roads, etc. - 5%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 2 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971; afterwards use Okeechobee 9 SW).

| 1974   |      | DAILY PRECIPITATION (inches) |      |      |      |      | VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5 |       |      |      |       |       |      |  |
|--------|------|------------------------------|------|------|------|------|--|-------|------|------|-------|-------|------|--|
| Day    |      | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct   | Nov   | Dec  |  |
| 1      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.36  | 0.10 | 0.0  | 0.0 T | 0.0 T | 0.01 |  |
| 2      | 0.06 | 0.0                          | 0.0  | 0.0  | 0.82 | 0.0  | 0.05   | 0.18  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |  |
| 3      | 0.0  | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 1.38   | 0.32  | 0.0  | 0.0  | 0.0   | 0.04  | 0.0  |  |
| 4      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.03   | 0.20  | 0.22 | 0.0  | 0.0   | 0.0   | 0.0  |  |
| 5      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.39 | 0.0  | 0.38   | 0.13  | 0.92 | 0.06 | 0.0   | 0.0   | 0.0  |  |
| 6      | 0.12 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.23   | 0.50  | 0.13 | 0.0  | 1.28  | 0.0   | 0.0  |  |
| 7      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.26   | 0.0   | 0.05 | 0.02 | 0.0   | 0.0   | 0.0  |  |
| 8      | 0.0  | 0.04                         | 0.0  | 0.0  | 0.0  | 1.01 | 0.0  | 0.0   | 0.71 | 0.02 | 0.0   | 0.0   | 0.0  |  |
| 9      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.03 | 0.0   | 0.01  | 0.0  |  |
| 10     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.01   | 0.0   | 0.0  | 0.0  | 0.0   | 0.05  | 0.0  |  |
| 11     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.21   | 0.0   | 0.13 | 0.12 | 0.0   | 0.0   | 0.0  |  |
| 12     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.66  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |  |
| 13     | 0.34 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.01 |  |
| 14     | 0.25 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.26 | 0.05   | 0.0   | 0.0  | 0.06 | 0.0   | 0.0   | 0.01 |  |
| 15     | 0.01 | 0.0                          | 0.16 | 0.0  | 0.0  | 0.39 | 0.16   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.27 |  |
| 16     | 0.0  | 0.39                         | 0.0  | 0.0  | 0.70 | 0.27 | 0.09   | 0.59  | 0.0  | 0.0  | 0.22  | 0.0   | 0.57 |  |
| 17     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.27  | 1.15 | 0.0  | 0.0   | 0.0   | 0.24 |  |
| 18     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.34  | 0.10 | 0.0  | 0.01  | 0.58  | 0.0  |  |
| 19     | 0.0  | 0.21                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.59 | 0.22 | 0.0   | 0.01  | 0.0  |  |
| 20     | 0.0  | 0.01                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |  |
| 21     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.01   | 0.64  | 0.86 | 0.0  | 0.0   | 0.0   | 0.01 |  |
| 22     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.38   | 1.70  | 0.0  | 0.0  | 0.0 T | 0.0   | 0.0  |  |
| 23     | 0.0  | 0.0                          | 0.0  | 0.04 | 0.04 | 0.0  | 0.0  | 0.08  | 0.17 | 1.30 | 0.01  | 0.0   | 0.0  |  |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 1.15   | 0.0   | 0.78 | 0.0  | 0.01  | 0.0   | 0.0  |  |
| 25     | 0.02 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 2.82   | 0.44  | 0.42 | 0.18 | 0.0   | 0.0   | 0.0  |  |
| 26     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.28 | 0.38   | 0.12  | 0.0  | 0.20 | 0.0   | 0.02  | 0.05 |  |
| 27     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.20   | 0.35  | 0.0  | 0.05 | 0.07  | 0.39  | 0.18 |  |
| 28     | 0.03 | 0.01                         | 0.0  | 0.0  | 0.0  | 1.17 | 0.80   | 0.51  | 0.07 | 0.20 | 0.0   | 0.0   | 0.0  |  |
| 29     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.08 | 0.43 | 0.34   | 0.98  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |  |
| 30     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.02   | 0.0   | 0.0  | 1.87 | 0.0   | 0.20  | 0.0  |  |
| 31     | 0.0  | 0.0                          | 0.0  | 0.0  | 1.97 | 0.0  | 0.20   | 0.0   | 0.0  | 0.05 | 0.0   | 0.0   | 0.0  |  |
| TOTAL  |      | 0.83                         | 0.68 | 0.16 | 1.95 | 5.49 | 9.04   | 10.96 | 7.38 | 4.33 | 1.65  | 1.30  | 1.35 |  |
| STA AV |      | 2.00                         | 2.24 | 3.01 | 1.01 | 4.57 | 10.34  | 7.77  | 7.55 | 5.01 | 4.89  | 1.35  | 1.34 |  |

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 10 yr (1965-1974) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5 |       |       |       |       |       |        |        |        |       |        |       |       |
|--|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep   | Oct    | Nov   | Dec   |
| 1  | 3.30  | 2.10  | 1.60  | 1.60  | 0.90  | 3.00   | 68.00  | 80.00  | 82.00 | 126.00 | 2.10  | 3.00  |
| 2  | 3.30  | 2.10  | 1.60  | 1.80  | 0.90  | 2.40   | 225.00 | 62.00  | 51.00 | 72.00  | 2.10  | 3.00  |
| 3  | 3.30  | 2.40  | 1.80  | 2.40  | 0.90  | 2.70   | 175.00 | 47.00  | 31.00 | 43.00  | 2.40  | 3.00  |
| 4  | 3.30  | 3.00  | 2.40  | 3.30  | 0.90  | 5.40   | 148.00 | 44.00  | 18.00 | 25.00  | 3.30  | 3.00  |
| 5  | 3.30  | 3.00  | 2.70  | 3.00  | 0.90  | 5.00   | 124.00 | 63.00  | 12.00 | 15.00  | 3.00  | 3.00  |
| 6  | 3.30  | 3.30  | 2.70  | 2.40  | 0.90  | 6.90   | 110.00 | 217.00 | 10.00 | 24.00  | 2.70  | 2.70  |
| 7  | 3.60  | 3.30  | 2.70  | 2.10  | 0.90  | 5.00   | 170.00 | 177.00 | 8.60  | 128.00 | 2.40  | 2.40  |
| 8  | 3.60  | 3.60  | 2.40  | 2.10  | 1.20  | 5.00   | 114.00 | 134.00 | 7.70  | 93.00  | 2.40  | 2.40  |
| 9  | 3.60  | 3.90  | 2.40  | 1.80  | 1.60  | 3.90   | 68.00  | 177.00 | 7.30  | 62.00  | 2.70  | 2.40  |
| 10   | 3.30  | 3.30  | 2.70  | 1.80  | 1.60  | 2.70   | 51.00  | 123.00 | 19.00 | 41.00  | 2.70  | 2.40  |
| 11   | 3.00  | 3.00  | 2.70  | 1.60  | 1.40  | 2.70   | 58.00  | 88.00  | 17.00 | 23.00  | 2.70  | 3.90  |
| 12   | 3.00  | 3.00  | 3.00  | 1.80  | 1.20  | 3.00   | 90.00  | 132.00 | 13.00 | 13.00  | 2.70  | 3.90  |
| 13   | 3.00  | 2.70  | 3.00  | 1.80  | 1.20  | 2.70   | 259.00 | 114.00 | 9.60  | 10.00  | 3.30  | 3.90  |
| 14   | 3.60  | 2.40  | 2.40  | 1.80  | 1.20  | 2.40   | 142.00 | 71.00  | 7.70  | 9.10   | 3.60  | 3.90  |
| 15   | 4.60  | 2.40  | 3.00  | 1.80  | 1.40  | 2.40   | 77.00  | 45.00  | 6.90  | 7.70   | 3.60  | 4.20  |
| 16   | 5.00  | 2.70  | 3.30  | 1.60  | 2.10  | 2.10   | 59.00  | 33.00  | 3.90  | 6.50   | 3.30  | 4.60  |
| 17   | 3.90  | 3.00  | 3.30  | 1.60  | 1.80  | 1.80   | 202.00 | 41.00  | 3.30  | 7.30   | 3.00  | 7.70  |
| 18   | 3.60  | 2.70  | 3.90  | 1.60  | 1.40  | 1.60   | 608.00 | 144.00 | 3.60  | 6.50   | 2.70  | 6.90  |
| 19   | 2.70  | 2.40  | 3.90  | 1.60  | 1.20  | 1.60   | 454.00 | 114.00 | 3.30  | 5.70   | 5.00  | 5.40  |
| 20   | 2.40  | 2.70  | 3.60  | 1.60  | 1.20  | 1.80   | 301.00 | 117.00 | 5.00  | 4.60   | 5.00  | 4.60  |
| 21   | 2.10  | 2.40  | 3.30  | 1.40  | 0.90  | 2.10   | 193.00 | 87.00  | 4.60  | 4.20   | 3.90  | 4.20  |
| 22   | 2.10  | 2.10  | 2.70  | 1.20  | 0.70  | 2.40   | 201.00 | 150.00 | 4.20  | 3.90   | 3.30  | 3.90  |
| 23   | 2.10  | 1.80  | 2.40  | 1.20  | 0.70  | 2.40   | 715.00 | 83.00  | 8.70  | 3.60   | 2.70  | 3.60  |
| 24   | 2.10  | 1.60  | 2.40  | 1.20  | 0.70  | 22.00  | 482.00 | 93.00  | 58.00 | 3.60   | 2.70  | 3.60  |
| 25   | 2.10  | 1.60  | 2.40  | 1.20  | 0.70  | 70.00  | 272.00 | 259.00 | 43.00 | 3.60   | 2.70  | 3.30  |
| 26   | 2.10  | 1.60  | 2.10  | 1.40  | 0.70  | 140.00 | 195.00 | 296.00 | 55.00 | 3.30   | 2.70  | 3.30  |
| 27   | 1.80  | 1.60  | 1.80  | 1.40  | 0.70  | 110.00 | 128.00 | 159.00 | 49.00 | 3.00   | 3.00  | 3.60  |
| 28   | 2.10  | 1.60  | 2.10  | 1.40  | 0.90  | 108.00 | 155.00 | 100.00 | 62.00 | 2.70   | 3.30  | 3.90  |
| 29   | 2.10  |       | 2.40  | 1.20  | 1.40  | 124.00 | 212.00 | 103.00 | 34.00 | 2.40   | 3.00  | 3.90  |
| 30   | 1.90  |       | 2.10  | 1.20  | 1.60  | 87.00  | 175.00 | 301.00 | 27.00 | 2.10   | 3.00  | 3.60  |
| 31   | 1.80  |       | 1.80  |       | 2.10  |        | 107.00 | 155.00 |       | 2.10   |       | 3.30  |
| MEAN   | 2.93  | 2.55  | 2.60  | 1.73  | 1.16  | 24.40  | 204.45 | 122.87 | 22.18 | 24.42  | 3.03  | 3.76  |
| INCRS  | 0.095 | 0.075 | 0.085 | 0.055 | 0.038 | 0.769  | 6.658  | 4.002  | 0.699 | 0.795  | 0.096 | 0.122 |
| STA AV   | 0.550 | 0.343 | 0.845 | 0.178 | 0.284 | 2.419  | 3.045  | 2.787  | 1.627 | 1.834  | 0.558 | 0.311 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 10 yr (1965-1974) record period.

## WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin.

AREA: 19.20 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |                 |                 |                 |                 |                 |                  |                  |       |       |       |       | WATKINSVILLE, GEORGIA WATERSHED W-1 (10001) |  |  |  |  |  |  |  |  |  |  |  |
|---|---|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|-------|-------|-------|-------|---|--|--|--|--|--|--|--|--|--|--|--|
|   |   | Jan                    | Feb             | Mar             | Apr             | May             | Jun             | Jul              | Aug              | Sep   | Oct   | Nov   | Dec   | Annual                                      |  |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 3.61                   | 4.92            | 2.34            | 4.26            | 5.83            | 4.75            | 6.42             | 6.39             | 2.05  | 0.36  | 3.79  | 5.25  | 49.97                                       |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.170                  | 0.038           | 0.002           | 0.049           | 0.025           | 0.072           | 0.363            | 0.179            | 0.0   | 0.0   | 0.001 | 0.010 | 0.910                                       |  |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 4.80                   | 4.61            | 5.96            | 4.34            | 4.04            | 3.81            | 4.96             | 3.94             | 3.17  | 2.77  | 3.55  | 4.76  | 50.72                                       |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.471                  | 0.361           | 0.658           | 0.417           | 0.359           | 0.203           | 0.361            | 0.300            | 0.033 | 0.057 | 0.272 | 0.268 | 3.761                                       |  |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |                 |                 |                 |                 |                 |                  |                  |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date | 1 Hour Date     | 2 Hours Date    | 6 Hours Date    | 12 Hours Date   | 1 Day Date      | 2 Days Date      | 8 Days Date      |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 7-27 0.560             | 7-27 0.340      | 7-27 0.352      | 7-27 0.352      | 7-27 0.352      | 7-26 0.363      | 7-25 0.363       | 7-19 0.363       |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |                 |                 |                 |                 |                 |                  |                  |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |
|   |   | 4-25 1945 2.710        | 6-26 1963 1.840 | 6-26 1963 2.540 | 6-26 1963 3.480 | 6-26 1963 3.740 | 6-26 1963 3.780 | 11-26 1948 5.680 | 11-22 1948 6.640 |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: 1974: Excellent coastal bermudagrass pasture. Fertilized and cut as follows: Jan. 11 2500 lbs. ammonium nitrate, May 23 7 tons NaNO<sub>3</sub>, July 30 31 tons of hay cut, Aug. 6 4000 lbs. NH<sub>4</sub>NO<sub>3</sub>, Sept. 11 20 tons of hay cut, Nov. 14 19 tons CaCO<sub>3</sub>, Dec 4 drilled w/ 42 bu. of rye. A total of 11226 cow-days of grazing. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 10.1-8. Precipitation and runoff records began Sept. 1, 1939. For long-time precipitation records, see National Weather Service records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1940-74).

| 1974 DAILY AIR TEMPERATURE (degrees F) |      |     |      |     |      |     |      |     |      |     |      |     |      | WATKINSVILLE, GEORGIA WATERSHED W-1 (10001) |      |     |      |     |      |     |      |     |      |     |  |
|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|---|------|-----|------|-----|------|-----|------|-----|------|-----|--|
| Day                                    | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul  |   | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |  |
|  | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min   | max  | min | max  | min | max  | min | max  | min | max  | min |  |
| 1                                      | 59   | 39  | 70   | 35  | 71   | 46  | 86   | 50  | 83   | 59  | 82   | 67  | 88   | 61  | 90   | 66  | 86   | 70  | 76   | 44  | 82   | 47  | 40   | 33  |  |
| 2                                      | 44   | 39  | 73   | 55  | 72   | 51  | 77   | 61  | 81   | 58  | 82   | 66  | 92   | 64  | 86   | 69  | 85   | 70  | 68   | 44  | 84   | 47  | 38   | 35  |  |
| 3                                      | 49   | 39  | 71   | 42  | 74   | 53  | 80   | 64  | 85   | 60  | 80   | 67  | 86   | 64  | 81   | 70  | 81   | 64  | 64   | 37  | 83   | 49  | 53   | 33  |  |
| 4                                      | 57   | 47  | 48   | 33  | 78   | 44  | 75   | 60  | 82   | 55  | 79   | 63  | 84   | 70  | 86   | 67  | 81   | 58  | 65   | 32  | 79   | 48  | 56   | 22  |  |
| 5                                      | 47   | 46  | 57   | 27  | 78   | 57  | 61   | 46  | 69   | 51  | 80   | 56  | 83   | 70  | 86   | 69  | 66   | 61  | 72   | 34  | 69   | 53  | 52   | 23  |  |
| 6                                      | 59   | 46  | 49   | 31  | 81   | 53  | 59   | 39  | 74   | 44  | 81   | 64  | 86   | 69  | 82   | 67  | 65   | 60  | 78   | 40  | 67   | 43  | 50   | 21  |  |
| 7                                      | 58   | 37  | 56   | 46  | 81   | 55  | 68   | 33  | 73   | 43  | 83   | 66  | 85   | 68  | 76   | 66  | 71   | 64  | 82   | 44  | 64   | 34  | 44   | 39  |  |
| 8                                      | 57   | 32  | 55   | 33  | 83   | 48  | 67   | 50  | 77   | 45  | 85   | 63  | 85   | 68  | 80   | 68  | 76   | 64  | 70   | 48  | 63   | 39  | 52   | 40  |  |
| 9                                      | 57   | 43  | 40   | 26  | 84   | 50  | 57   | 41  | 80   | 60  | 88   | 63  | 90   | 67  | 85   | 71  | 78   | 66  | 75   | 41  | 67   | 32  | 45   | 30  |  |
| 10                                     | 68   | 55  | 51   | 22  | 86   | 55  | 67   | 37  | 83   | 59  | 86   | 67  | 89   | 69  | 89   | 68  | 86   | 63  | 78   | 43  | 67   | 32  | 54   | 24  |  |
| 11                                     | 66   | 52  | 55   | 35  | 69   | 54  | 69   | 36  | 83   | 57  | 82   | 59  | 89   | 70  | 82   | 71  | 89   | 64  | 81   | 46  | 68   | 33  | 54   | 32  |  |
| 12                                     | 52   | 33  | 64   | 25  | 76   | 46  | 74   | 53  | 77   | 61  | 82   | 56  | 86   | 68  | 84   | 70  | 88   | 65  | 80   | 47  | 56   | 40  | 53   | 43  |  |
| 13                                     | 47   | 30  | 67   | 35  | 62   | 40  | 78   | 62  | 81   | 52  | 81   | 60  | 86   | 68  | 87   | 71  | 89   | 66  | 81   | 51  | 59   | 32  | 54   | 34  |  |
| 14                                     | 36   | 32  | 65   | 53  | 64   | 37  | 76   | 64  | 81   | 48  | 86   | 59  | 90   | 68  | 80   | 68  | 85   | 67  | 79   | 51  | 63   | 36  | 58   | 29  |  |
| 15                                     | 58   | 36  | 66   | 48  | 68   | 32  | 67   | 50  | 81   | 58  | 83   | 62  | 92   | 67  | 87   | 67  | 83   | 65  | 80   | 58  | 52   | 27  | 42   | 36  |  |
| 16                                     | 66   | 56  | 50   | 37  | 62   | 43  | 70   | 44  | 84   | 61  | 85   | 66  | 33   | 67  | 84   | 70  | 82   | 65  | 72   | 52  | 59   | 23  | 53   | 32  |  |
| 17                                     | 73   | 56  | 57   | 36  | 53   | 35  | 65   | 46  | 84   | 61  | 79   | 53  | 88   | 67  | 88   | 68  | 84   | 66  | 73   | 46  | 68   | 42  | 42   | 27  |  |
| 18                                     | 56   | 48  | 60   | 30  | 66   | 35  | 71   | 37  | 89   | 64  | 83   | 51  | 89   | 67  | 89   | 66  | 81   | 60  | 79   | 44  | 55   | 50  | 48   | 25  |  |
| 19                                     | 56   | 48  | 66   | 48  | 70   | 58  | 76   | 41  | 91   | 68  | 88   | 58  | 93   | 67  | 89   | 66  | 82   | 56  | 66   | 39  | 62   | 52  | 40   | 35  |  |
| 20                                     | 60   | 52  | 63   | 37  | 77   | 61  | 75   | 46  | 78   | 65  | 93   | 63  | 90   | 72  | 81   | 69  | 85   | 57  | 67   | 32  | 68   | 44  | 46   | 40  |  |
| 21                                     | 68   | 46  | 67   | 33  | 70   | 41  | 73   | 47  | 78   | 66  | 90   | 63  | 92   | 64  | 83   | 67  | 87   | 63  | 58   | 31  | 59   | 38  | 55   | 39  |  |
| 22                                     | 70   | 38  | 65   | 43  | 63   | 33  | 76   | 56  | 80   | 65  | 92   | 67  | 80   | 66  | 87   | 65  | 70   | 57  | 63   | 28  | 68   | 36  | 61   | 28  |  |
| 23                                     | 66   | 41  | 62   | 33  | 59   | 40  | 72   | 54  | 83   | 68  | 82   | 65  | 80   | 65  | 87   | 64  | 72   | 50  | 73   | 29  | 67   | 31  | 64   | 27  |  |
| 24                                     | 73   | 57  | 65   | 31  | 65   | 43  | 68   | 44  | 88   | 63  | 80   | 58  | 84   | 70  | 88   | 66  | 61   | 52  | 75   | 34  | 69   | 33  | 63   | 48  |  |
| 25                                     | 68   | 54  | 39   | 24  | 50   | 37  | 71   | 33  | 83   | 64  | 81   | 60  | 83   | 68  | 91   | 67  | 62   | 51  | 79   | 40  | 56   | 33  | 67   | 40  |  |
| 26                                     | 62   | 52  | 48   | 18  | 59   | 40  | 78   | 38  | 70   | 56  | 82   | 54  | 85   | 70  | 90   | 68  | 68   | 57  | 82   | 44  | 52   | 26  | 48   | 33  |  |
| 27                                     | 71   | 58  | 57   | 21  | 64   | 45  | 85   | 46  | 76   | 57  | 78   | 56  | 81   | 71  | 92   | 68  | 71   | 63  | 82   | 48  | 52   | 22  | 54   | 44  |  |
| 28                                     | 67   | 53  | 65   | 25  | 73   | 54  | 84   | 49  | 79   | 52  | 79   | 53  | 90   | 68  | 91   | 71  | 84   | 67  | 78   | 50  | 57   | 27  | 62   | 50  |  |
| 29                                     | 56   | 47  |      |     | 75   | 52  | 82   | 51  | 83   | 56  | 83   | 55  | 91   | 69  | 88   | 70  | 80   | 58  | 78   | 48  | 57   | 24  | 56   | 52  |  |
| 30                                     | 66   | 40  |      |     | 72   | 50  | 81   | 58  | 87   | 63  | 86   | 57  | 92   | 68  | 88   | 69  | 79   | 46  | 79   | 55  | 50   | 39  | 68   | 55  |  |
| 31                                     | 67   | 36  |      |     | 77   | 52  |      |     | 88   | 66  |      |     | 88   | 63  | 88   | 70  |      |     | 80   | 50  |      |     | 67   | 54  |  |
| AV.                                    | 60   | 45  | 59   | 34  | 70   | 46  | 73   | 48  | 81   | 58  | 83   | 61  | 85   | 68  | 86   | 68  | 79   | 61  | 75   | 43  | 64   | 37  | 53   | 36  |  |
| MEAN                                   | 52.4 |     | 46.7 |     | 58.5 |     | 60.4 |     | 69.7 |     | 72.0 |     | 76.5 |   | 77.1 |     | 69.9 |     | 58.8 |     | 50.6 |     | 44.3 |     |  |
| STA AV                                 | 53   | 34  | 55   | 32  | 64   | 41  | 73   | 47  | 79   | 55  | 86   | 64  | 89   | 69  | 87   | 68  | 84   | 64  | 75   | 51  | 63   | 39  | 56   | 37  |  |

NOTES: STA AV based on 6 yr (1969-74) record period.

| 1974 DAILY PRECIPITATION (inches) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001) |      |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Day   | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1   | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.43 | 0.0  | 0.0  | 0.03 |
| 2   | 0.0  | 0.21 | 0.0  | 0.80 | 0.11 | 0.12 | 0.01 | 0.06 | 0.01 | 0.0  | 0.0  | 0.0  |
| 3   | 0.40 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  |
| 4   | 0.23 | 0.0  | 0.0  | 1.51 | 0.48 | 0.0  | 0.03 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |
| 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.72 | 0.0  | 0.0  | 0.20 | 0.06 | 0.0  | 0.32 | 0.0  |
| 6   | 0.0  | 1.57 | 0.0  | 0.0  | 0.0  | 0.03 | 0.17 | 0.0  | 0.88 | 0.0  | 0.0  | 0.0  |
| 7   | 0.35 | 0.39 | 0.0  | 0.0  | 0.0  | 0.45 | 0.0  | 0.90 | 0.07 | 0.0  | 0.0  | 0.48 |
| 8   | 0.0  | 0.08 | 0.0  | 0.40 | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  |
| 9   | 0.06 | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.80 | 0.0  | 0.0  | 0.0  | 0.0  |
| 11  | 0.14 | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  |
| 12  | 0.0  | 0.0  | 0.15 | 0.11 | 0.50 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.06 |
| 13  | 0.0  | 0.0  | 0.0  | 1.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14  | 0.30 | 0.37 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.32 | 0.08 | 0.0  | 0.28 | 0.0  |
| 15  | 0.0  | 0.65 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.27 |
| 16  | 0.0  | 0.77 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.20 | 0.0  | 0.36 | 0.0  | 0.0  |
| 17  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.71 | 0.0  | 0.0  | 0.28 | 0.0  |
| 18  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.53 | 0.0  |
| 19  | 0.0  | 0.16 | 0.26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.92 |
| 20  | 0.76 | 0.0  | 0.02 | 0.0  | 0.0  | 0.54 | 0.0  | 0.07 | 0.0  | 0.0  | 0.62 | 0.25 |
| 21  | 0.27 | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |
| 22  | 0.0  | 0.57 | 0.0  | 0.33 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23  | 0.0  | 0.0  | 0.0  | 0.0  | 2.73 | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 1.03 |
| 25  | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.16 |
| 26  | 0.16 | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 2.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27  | 0.08 | 0.0  | 0.10 | 0.0  | 0.0  | 3.22 | 3.38 | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 28  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 |
| 29  | 0.26 | 0.0  | 0.74 | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  | 0.0  | 0.89 |
| 30  | 0.0  | 0.04 | 0.04 | 0.0  | 0.01 | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 1.42 | 0.02 |
| 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| TOTAL   | 3.61 | 4.92 | 2.34 | 4.26 | 5.83 | 4.75 | 6.42 | 6.39 | 2.05 | 0.36 | 3.79 | 5.25 |
| STA AV  | 4.80 | 4.61 | 5.96 | 4.34 | 4.04 | 3.81 | 4.96 | 3.94 | 3.17 | 2.77 | 3.55 | 4.76 |

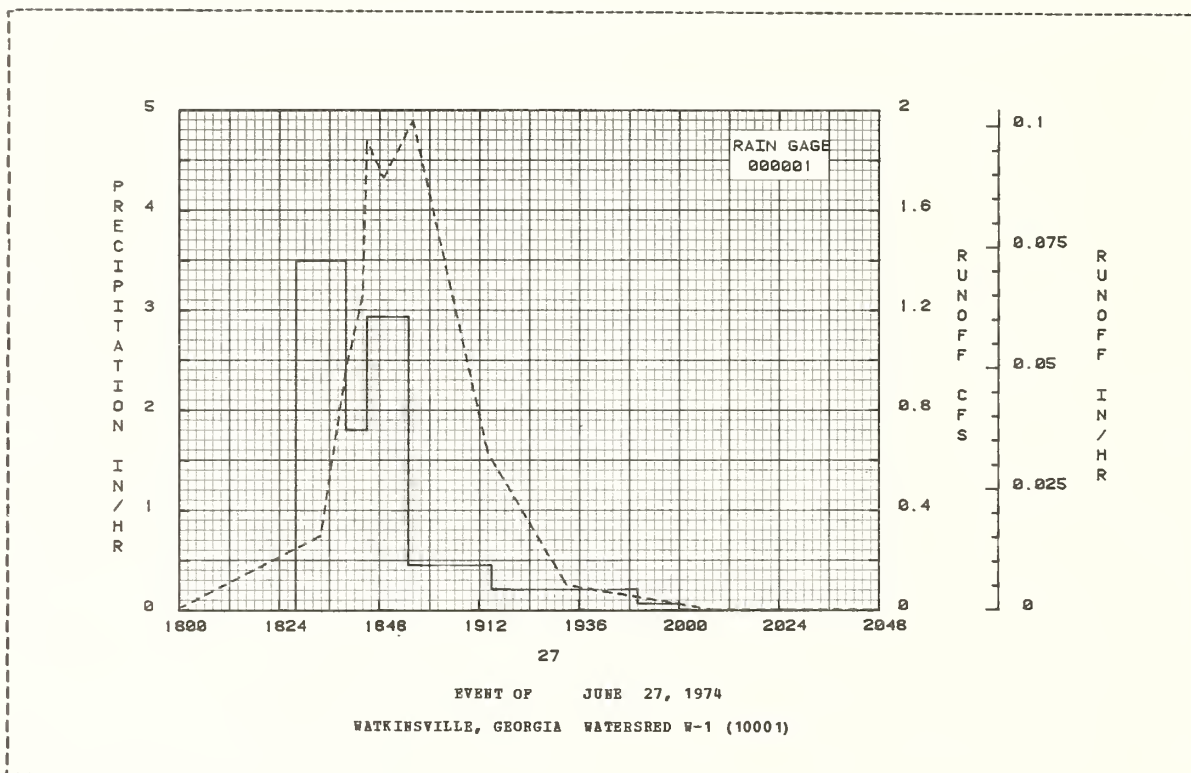
NOTES: Daily precipitation values from rain gage R1-W1. STA AV based on 35 yr (1940-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001) |        |        |        |        |        |        |        |        |       |       |       |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep   | Oct   | Nov   | Dec    |
| 1   | 0.134  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 2   | 0.0    | 0.0    | 0.0    | 0.003  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 3   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 4   | 0.0    | 0.0    | 0.0    | 0.029  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 5   | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.002  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 6   | 0.0    | 0.020  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 7   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 10  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.003  | 0.0   | 0.0   | 0.0   | 0.0    |
| 11  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 12  | 0.0    | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 13  | 0.0    | 0.0    | 0.0    | 0.007  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 14  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 15  | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.003  |
| 16  | 0.0    | 0.007  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.141  | 0.0   | 0.0   | 0.0   | 0.0    |
| 17  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 18  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 19  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  |
| 20  | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 21  | 0.001  | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 22  | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 23  | 0.0    | 0.0    | 0.0    | 0.0    | 0.018  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 24  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0 T  |
| 25  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 26  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.008  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 27  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.058  | 0.284  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 28  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 29  | 0.0    | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.003  |
| 30  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.001 | 0.0    |
| 31  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| MEAN  | 0.0044 | 0.0011 | 0.0001 | 0.0013 | 0.0007 | 0.0019 | 0.0094 | 0.0047 | 0.0   | 0.0   | 0.0   | 0.0003 |
| INCHES  | 0.170  | 0.038  | 0.002  | 0.049  | 0.025  | 0.072  | 0.363  | 0.179  | 0.0   | 0.0   | 0.001 | 0.010  |
| STA AV  | 0.471  | 0.361  | 0.658  | 0.417  | 0.359  | 0.203  | 0.361  | 0.300  | 0.033 | 0.057 | 0.272 | 0.268  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.239669. STA AV based on 35 yr (1940-74) record period.

| 1974 SELECTED RUNOFF EVENT                                      |          |          | WATKINSVILLE, GEORGIA WATERSHED W-1 (10001) |        |           |          |        |        |       |          |
|---|----------|----------|---|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                                    |        |           |          | RUNOFF |        |       |          |
| Date  | Rainfall | Runoff   | Date  | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                                      | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF JUNE 27, 1974  |          |          |   |        |           |          |        |        |       |          |
| RG 000001   |          |          | RG 000001                                   |        |           |          |        |        |       |          |
| 6-27  | 1.60     | 0.015    | 6-27  | 1800   | 0.0       | 0.0      | 6-27   | 1800   | 0.011 | 0.0      |
|   |          |          |   | 1828   | 0.0       | 0.0      |        | 1834   | 0.298 | 0.0045   |
|   |          |          |   | 1840   | 3.5000    | 0.70     |        | 1840   | 0.964 | 0.0077   |
|   |          |          |   | 1845   | 1.8001    | 0.85     |        | 1844   | 1.259 | 0.0115   |
|   |          |          |   | 1855   | 2.9399    | 1.34     |        | 1845   | 1.882 | 0.0131   |
| WATERSHED CONDITIONS:   |          |          |   |        |           |          |        |        |       |          |
| Dormant Coastal   |          |          |   | 1915   | 0.4500    | 1.49     |        | 1849   | 1.733 | 0.0193   |
| Bermudagrass.   |          |          |   | 1950   | 0.2057    | 1.61     |        | 1856   | 1.961 | 0.0301   |
| Excellent cover.  |          |          |   | 2000   | 0.0601    | 1.62     |        | 1914   | 0.626 | 0.0502   |
|   |          |          |   |        |           |          |        | 1933   | 0.103 | 0.0562   |
|   |          |          |   |        |           |          |        | 2008   | 0.0   | 0.0577   |
|   |          |          |   |        |           |          |        | 2030   | 0.0   | 0.0577   |
| NOTES: To convert runoff in CFS to IN/HR. multiply by 0.051653. |          |          |   |        |           |          |        |        |       |          |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.051653.





## KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania: Mahantango Creek Watershed, Susquehanna River Basin. Lat. 40 deg. 42 min. 16 sec. N.; Long. 76 deg. 35 min. 16 sec. W.

AREA: 1773.00 acres 2.77 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38 |       |   |       |       |       |       |        |        |        |      |        |
|---|---|-------------------|-------|--------|-------|--|-------|---|-------|-------|-------|-------|--------|--------|--------|------|--------|
|   |   | Jan               | Feb   | Mar    | Apr   | May  | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec    | Annual |        |      |        |
| 1974  | P | 2.85              | 1.29  | 4.92   | 2.31  | 3.60                                       | 5.49  | 3.11                                      | 2.93  | 4.57  | 1.30  | 2.45  | 3.23   | 38.05  |        |      |        |
|   | Q | 3.385             | 1.171 | 3.170  | 3.158 | 0.914                                      | 0.554 | 0.909                                     | 0.472 | 0.469 | 0.327 | 0.598 | 2.013  | 17.141 |        |      |        |
| STA AV  | P | 2.09              | 2.02  | 2.92   | 3.09  | 4.21                                       | 6.16  | 3.50                                      | 3.15  | 4.18  | 2.27  | 3.92  | 3.51   | 41.03  |        |      |        |
|   | Q | 1.745             | 2.416 | 2.935  | 2.428 | 1.702                                      | 2.902 | 0.691                                     | 0.472 | 0.755 | 0.345 | 1.480 | 2.885  | 20.756 |        |      |        |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |  |       |   |       |       |       |       |        |        |        |      |        |
|   |   | Maximum Discharge |       | 1 Runr |       | 2 Runrs                                    |       | Maximum Volume for Selected Time Interval |       |       |       |       |        |        |        |      |        |
|   |   | Date              | Rate  | Date   | Vol.  | Date                                       | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.   | Date   | Vol.   | Date | Vol.   |
| 1974  |   | 1-21              | 0.040 | 1-21   | 0.038 | 1-21                                       | 0.069 | 1-21                                      | 0.160 | 1-21  | 0.271 | 1-21  | 0.447  | 1-21   | 0.759  | 3-30 | 1.756  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |  |       |   |       |       |       |       |        |        |        |      |        |
|   |   | 6-22              | 0.917 | 6-22   | 0.786 | 6-22                                       | 1.484 | 6-22                                      | 3.411 | 6-22  | 6.373 | 6-22  | 10.432 | 6-22   | 12.378 | 6-21 | 14.330 |
|   |   | 1972              |       | 1972   |       | 1972                                       |       | 1972                                      |       | 1972  |       | 1972  |        | 1972   |        | 1972 |        |

NOTES: Watershed conditions: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%. Precipitation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gages HB37 and HB37. Length of record 7 yr (1968-74). For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

| 1974 DAILY AIR TEMPERATURE (degrees F) |      |     |      |     |      |     |      |     |      |     |      |     |      | KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38 |      |     |      |     |      |     |      |     |      |     |  |  |  |
|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|--|------|-----|------|-----|------|-----|------|-----|------|-----|--|--|--|
| Day                                    | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul  |  | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |  |  |  |
|  | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min  | max  | min | max  | min | max  | min | max  | min | max  | min |  |  |  |
| 1                                      | 34   | 24  | 36   | 26  | 42   | 29  | 46   | 35  | 68   | 42  | 68   | 55  | 81   | 60   | 83   | 56  | 80   | 63  | 55   | 38  | 76   | 54  | 40   | 29  |  |  |  |
| 2                                      | 30   | 20  | 33   | 24  | 36   | 28  | 63   | 38  | 60   | 35  | 65   | 52  | 85   | 56   | 84   | 62  | 72   | 60  | 50   | 32  | 70   | 52  | 44   | 34  |  |  |  |
| 3                                      | 30   | 25  | 26   | 19  | 48   | 32  | 72   | 42  | 57   | 40  | 74   | 46  | 88   | 64   | 82   | 68  | 68   | 53  | 43   | 29  | 64   | 56  | 41   | 28  |  |  |  |
| 4                                      | 30   | 19  | 22   | 11  | 71   | 43  | 72   | 62  | 55   | 40  | 78   | 53  | 88   | 66   | 79   | 60  | 64   | 48  | 55   | 23  | 69   | 57  | 38   | 26  |  |  |  |
| 5                                      | 31   | 16  | 24   | 10  | 66   | 38  | 64   | 42  | 54   | 29  | 78   | 55  | 88   | 66   | 75   | 56  | 68   | 42  | 71   | 38  | 62   | 50  | 42   | 24  |  |  |  |
| 6                                      | 30   | 26  | 30   | 14  | 52   | 30  | 42   | 34  | 54   | 38  | 78   | 52  | 80   | 60   | 75   | 53  | 61   | 52  | 76   | 44  | 54   | 44  | 43   | 22  |  |  |  |
| 7                                      | 30   | 20  | 31   | 20  | 67   | 45  | 61   | 26  | 50   | 32  | 70   | 56  | 86   | 57   | 78   | 60  | 71   | 52  | 62   | 44  | 50   | 41  | 50   | 32  |  |  |  |
| 8                                      | 22   | 13  | 22   | 15  | 54   | 32  | 52   | 34  | 60   | 28  | 76   | 60  | 88   | 62   | 74   | 58  | 74   | 57  | 54   | 36  | 56   | 38  | 56   | 38  |  |  |  |
| 9                                      | 28   | 17  | 25   | 12  | 35   | 30  | 38   | 26  | 56   | 49  | 87   | 60  | 89   | 62   | 79   | 61  | 74   | 56  | 60   | 32  | 54   | 37  | 38   | 26  |  |  |  |
| 10                                     | 30   | 23  | 26   | 8   | 44   | 30  | 46   | 25  | 61   | 41  | 90   | 65  | 86   | 64   | 77   | 61  | 74   | 56  | 68   | 39  | 59   | 32  | 30   | 22  |  |  |  |
| 11                                     | 34   | 27  | 27   | 22  | 43   | 22  | NR   | NR  | 67   | 35  | 75   | 53  | 72   | 56   | 75   | 53  | 76   | 54  | 69   | 41  | 56   | 41  | 43   | 20  |  |  |  |
| 12                                     | 27   | 13  | 42   | 20  | 40   | 20  | NR   | NR  | 64   | 46  | 71   | 48  | 77   | 49   | 76   | 52  | 84   | 64  | 70   | 48  | 51   | 42  | 46   | 35  |  |  |  |
| 13                                     | 19   | 7   | 54   | 32  | 34   | 16  | NR   | NR  | 57   | 45  | 74   | 44  | 82   | 51   | 82   | 64  | 82   | 62  | 67   | 54  | 44   | 34  | 40   | 37  |  |  |  |
| 14                                     | 30   | 8   | 42   | 20  | 44   | 20  | NR   | NR  | 77   | 45  | 77   | 54  | 90   | 56   | 82   | 62  | 66   | 48  | 65   | 54  | 46   | 32  | 37   | 31  |  |  |  |
| 15                                     | 46   | 23  | 29   | 14  | 48   | 20  | NR   | NR  | 82   | 58  | 78   | 60  | 84   | 64   | 80   | 58  | 68   | 44  | 62   | 47  | 36   | 27  | 35   | 30  |  |  |  |
| 16                                     | 49   | 32  | 30   | 16  | 44   | 30  | 58   | 37  | 80   | 56  | 69   | 59  | 76   | 58   | 82   | 56  | 70   | 48  | 49   | 41  | 44   | 28  | 42   | 32  |  |  |  |
| 17                                     | 40   | 18  | 38   | 26  | 34   | 28  | 62   | 26  | 85   | 62  | 70   | 52  | 77   | 51   | 80   | 64  | 74   | 50  | 65   | 40  | 43   | 29  | 39   | 28  |  |  |  |
| 18                                     | 28   | 16  | 35   | 21  | 43   | 26  | 67   | 28  | 78   | 56  | 73   | 47  | 84   | 62   | 80   | 57  | 72   | 52  | 49   | 26  | 50   | 28  | 32   | 21  |  |  |  |
| 19                                     | 36   | 28  | 41   | 30  | 48   | 27  | 53   | 38  | 74   | 51  | 78   | 53  | 86   | 63   | 84   | 58  | 74   | 48  | 42   | 24  | 48   | 30  | 30   | 21  |  |  |  |
| 20                                     | 32   | 28  | 42   | 33  | 49   | 26  | 62   | 23  | 70   | 44  | 82   | 61  | 72   | 52   | 85   | 59  | 76   | 62  | 40   | 27  | 48   | 42  | 36   | 23  |  |  |  |
| 21                                     | 39   | 30  | 46   | 25  | 40   | 30  | 74   | 28  | 74   | 46  | 75   | 62  | 76   | 47   | 83   | 60  | 72   | 44  | 44   | 26  | 42   | 34  | 39   | 27  |  |  |  |
| 22                                     | 43   | 36  | 58   | 38  | 42   | 26  | 72   | 55  | 84   | 55  | 81   | 60  | 80   | 52   | 76   | 63  | 62   | 40  | 60   | 27  | 38   | 25  | 38   | 26  |  |  |  |
| 23                                     | 47   | 36  | 39   | 26  | 55   | 34  | 56   | 40  | 74   | 55  | 62   | 56  | 65   | 59   | 83   | 65  | 50   | 36  | 58   | 39  | 48   | 21  | 39   | 24  |  |  |  |
| 24                                     | 36   | 32  | 38   | 20  | 52   | 21  | 46   | 39  | 73   | 53  | 74   | 52  | 68   | 59   | 81   | 62  | 54   | 28  | 59   | 38  | 58   | 36  | 44   | 35  |  |  |  |
| 25                                     | 45   | 27  | 31   | 20  | 36   | 14  | 58   | 32  | 59   | 45  | 60   | 54  | 75   | 58   | 80   | 55  | 60   | 38  | 56   | 39  | 51   | 27  | 39   | 29  |  |  |  |
| 26                                     | 42   | 29  | 30   | 15  | 53   | 22  | 66   | 46  | 64   | 42  | 70   | 52  | 72   | 62   | 78   | 64  | 68   | 44  | 56   | 38  | 29   | 20  | 34   | 23  |  |  |  |
| 27                                     | 60   | 40  | 40   | 16  | 46   | 24  | 70   | 38  | 62   | 46  | 73   | 52  | 84   | 66   | 83   | 68  | 74   | 46  | 64   | 37  | 36   | 16  | 35   | 24  |  |  |  |
| 28                                     | 46   | 37  | 47   | 30  | 44   | 33  | 82   | 50  | 67   | 40  | 66   | 54  | 86   | 62   | 80   | 66  | 67   | 61  | 61   | 39  | 40   | 23  | 39   | 24  |  |  |  |
| 29                                     | 45   | 34  |      |     | 34   | 24  | 86   | 60  | 62   | 52  | 71   | 54  | 80   | 60   | 81   | 65  | 72   | 51  | 68   | 47  | 38   | 25  | 42   | 24  |  |  |  |
| 30                                     | 51   | 33  |      |     | 38   | 30  | 80   | 60  | 76   | 56  | 79   | 53  | 79   | 59   | 72   | 59  | 60   | 41  | 67   | 54  | 33   | 20  | 44   | 30  |  |  |  |
| 31                                     | 58   | 31  |      |     | 38   | 32  |      |     | 66   | 58  |      |     | 80   | 56   | 80   | 59  |      |     | 70   | 49  |      |     | 33   | 26  |  |  |  |
| AV.                                    | 37   | 25  | 35   | 21  | 46   | 28  | 62   | 39  | 67   | 46  | 74   | 54  | 81   | 59   | 80   | 60  | 70   | 50  | 59   | 38  | 50   | 35  | 40   | 27  |  |  |  |
| MEAN                                   | 31.0 |     | 28.0 |     | 36.9 |     | 50.3 |     | 56.3 |     | 64.3 |     | 69.6 |  | 69.9 |     | 59.8 |     | 48.8 |     | 42.3 |     | 33.6 |     |  |  |  |
| STA AV                                 | 33   | 19  | 34   | 20  | 44   | 29  | 59   | 39  | 66   | 48  | 76   | 57  | 81   | 61   | 79   | 60  | 73   | 54  | 61   | 43  | 48   | 34  | 38   | 26  |  |  |  |



| 1974 DAILY PRECIPITATION (inches) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38 |      |       |      |       |      |      |      |      |      |      |       |       |
|--|------|-------|------|-------|------|------|------|------|------|------|-------|-------|
| Day  | Jan  | Feb   | Mar  | Apr   | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov   | Dec   |
| 1  | 0.05 | 0.0   | 0.20 | 0.0   | 0.05 | 0.08 | 0.05 | 0.0  | 0.71 | 0.05 | 0.0   | 0.15  |
| 2  | 0.0  | 0.05  | 0.05 | 0.05  | 0.05 | 0.0  | 0.0  | 0.95 | 0.05 | 0.15 | 0.15  | 0.25H |
| 3  | 0.40 | 0.05  | 0.0  | 0.10  | 0.15 | 0.05 | 0.0  | 0.49 | 1.06 | 0.0  | 0.20  | 0.0   |
| 4  | 0.0  | 0.0   | 0.0  | 0.20  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05  | 0.0   |
| 5  | 0.0  | 0.0   | 0.05 | 0.60  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.10E | 0.0   |
| 6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.05 | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0   | 0.0   |
| 7  | 0.0  | 0.0   | 0.05 | 0.0   | 0.0  | 0.0  | 0.05 | 0.0  | 0.15 | 0.0  | 0.0   | 0.30  |
| 8  | 0.0  | 0.0   | 1.11 | 0.36  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.99  |
| 9  | 0.20 | 0.0   | 0.50 | 0.45  | 0.40 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0   | 0.0   |
| 10   | 0.45 | 0.05  | 0.0  | 0.05H | 0.05 | 0.44 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 11   | 0.35 | 0.05S | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 12   | 0.0  | 0.0   | 0.0  | 0.0   | 1.39 | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.70  | 0.05  |
| 13   | 0.0  | 0.0   | 0.0  | 0.10  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.10  | 0.0   |
| 14   | 0.0  | 0.0   | 0.0  | 0.10  | 0.0  | 0.0  | 0.10 | 0.0  | 0.10 | 0.0  | 0.30  | 0.10  |
| 15   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.53 | 0.10 | 0.0  | 0.0  | 0.20 | 0.10H | 0.10  |
| 16   | 0.0  | 0.0   | 0.55 | 0.0   | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.70 | 0.0   | 0.70H |
| 17   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.10 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0   | 0.0   |
| 18   | 0.05 | 0.0   | 0.05 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 19   | 0.10 | 0.30  | 0.0  | 0.10  | 0.0  | 0.10 | 0.10 | 0.0  | 0.0  | 0.0  | 0.10  | 0.0   |
| 20   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.10 | 0.0  | 0.0  | 0.29 | 0.0  | 0.45  | 0.0   |
| 21   | 0.85 | 0.0   | 0.70 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.40 | 0.0  | 0.05  | 0.0   |
| 22   | 0.0  | 0.69  | 0.0  | 0.10  | 0.15 | 0.05 | 0.0  | 0.53 | 0.10 | 0.0  | 0.05L | 0.10  |
| 23   | 0.0  | 0.0   | 0.0  | 0.0   | 0.40 | 0.85 | 0.21 | 0.02 | 0.0  | 0.0  | 0.0   | 0.0   |
| 24   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.25 | 0.15 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 25   | 0.0  | 0.10S | 0.0  | 0.0   | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.20 | 0.10  | 0.10  |
| 26   | 0.15 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 27   | 0.0  | 0.0   | 0.0  | 0.0   | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |
| 28   | 0.25 | 0.0   | 0.0  | 0.05  | 0.0  | 0.85 | 0.79 | 0.10 | 0.66 | 0.0  | 0.0   | 0.0   |
| 29   | 0.0  | 0.0   | 0.10 | 0.0   | 0.40 | 0.0  | 1.40 | 0.39 | 0.15 | 0.0  | 0.0   | 0.0   |
| 30   | 0.0  | 0.0   | 1.21 | 0.05  | 0.0  | 1.21 | 0.0  | 0.30 | 0.0  | 0.0  | 0.0   | 0.0   |
| 31   | 0.0  | 0.0   | 0.35 | 0.0   | 0.46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.39  |
| TOTAL  | 2.85 | 1.29  | 4.92 | 2.31  | 3.60 | 5.49 | 3.11 | 2.93 | 4.57 | 1.30 | 2.45  | 3.23  |
| STA AV   | 2.09 | 2.02  | 2.92 | 3.09  | 4.21 | 6.16 | 3.50 | 3.15 | 4.18 | 2.27 | 3.92  | 3.51  |

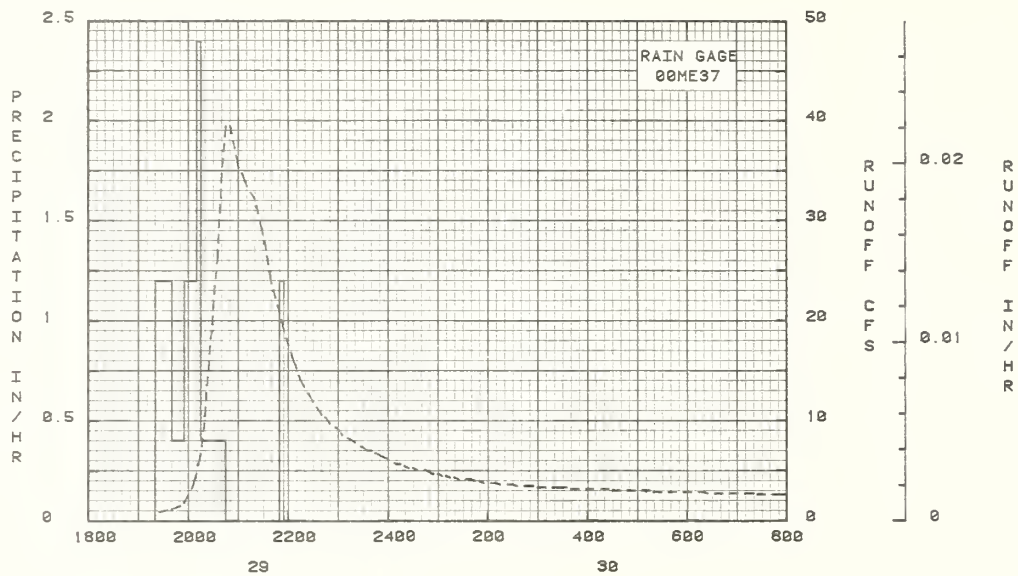
NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and ME37. STA AV based on 7 yr (1968-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38 |        |        |        |        |        |        |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 8.656  | 6.697  | 3.412  | 25.491 | 1.594  | 1.914  | 13.297 | 1.013  | 1.318  | 1.050  | 0.551  | 1.289  |
| 2  | 6.868  | 5.758  | 3.047  | 17.781 | 1.467  | 1.296  | 7.039  | 2.726  | 0.983  | 1.065  | 0.551  | 2.279  |
| 3  | 6.250  | 4.909  | 2.972  | 12.537 | 1.631  | 1.177  | 4.373  | 3.933  | 3.382  | 1.020  | 0.916  | 1.661  |
| 4  | 5.550  | 4.090  | 2.980  | 11.822 | 1.453  | 1.073  | 3.307E | 3.955  | 2.041  | 0.916  | 0.708  | 1.415  |
| 5  | 4.767  | 3.583  | 3.032  | 16.157 | 1.341  | 0.991  | 2.927E | 2.786  | 1.445  | 0.901  | 0.700  | 1.385  |
| 6  | 4.380  | 3.285  | 2.913  | 17.014 | 1.408  | 0.939  | 2.726E | 1.914  | 1.207  | 0.872  | 0.588  | 1.408  |
| 7  | 3.978  | 3.240  | 3.009  | 12.246 | 1.281  | 0.909  | 2.518E | 1.497  | 1.378  | 0.849  | 0.551  | 1.490  |
| 8  | 3.345  | 2.965  | 8.239  | 10.064 | 1.199  | 0.887  | 2.339E | 1.311  | 1.058  | 0.805  | 0.521  | 19.226 |
| 9  | 3.322  | 2.667  | 25.044 | 14.794 | 1.527  | 0.857  | 2.153E | 1.244  | 0.961  | 0.767  | 0.492  | 17.200 |
| 10   | 3.382  | 2.376  | 25.729 | 13.535 | 1.371  | 1.065  | 1.981E | 1.117  | 0.901  | 0.745  | 0.499  | 8.805  |
| 11   | 6.808  | 2.346  | 16.373 | 11.188 | 1.207  | 0.939  | 1.818E | 0.976  | 0.819  | 0.663  | 0.507  | 5.892  |
| 12   | 5.363  | 2.138  | 11.136 | 9.185  | 5.624  | 0.827  | 1.661E | 0.924  | 0.827  | 0.596  | 1.564  | 4.596  |
| 13   | 3.836  | 2.138  | 8.149  | 8.082  | 5.684  | 0.752  | 1.520E | 0.894  | 1.333  | 0.574  | 1.415  | 3.628  |
| 14   | 3.486  | 1.900  | 6.749  | 7.002  | 4.767  | 0.678  | 1.385E | 0.819  | 1.490  | 0.574  | 1.341  | 3.419  |
| 15   | 3.300  | 1.661  | 5.669  | 6.019  | 4.030  | 0.663  | 1.244E | 0.693  | 1.021  | 0.603  | 1.981  | 2.868  |
| 16   | 3.777  | 1.669  | 7.188  | 4.894  | 3.382  | 1.512  | 1.132E | 0.663  | 0.939  | 1.646  | 1.751  | 8.924  |
| 17   | 5.088  | 1.669  | 6.198  | 4.246  | 3.084  | 1.713  | 1.013E | 0.685  | 0.879  | 1.073  | 1.713  | 13.409 |
| 18   | 4.551  | 1.557  | 5.289  | 3.814  | 2.860  | 1.050  | 0.909E | 0.618  | 0.857  | 0.886  | 1.572  | 9.899  |
| 19   | 4.708  | 1.914  | 5.147  | 3.613  | 2.548  | 0.953  | 0.775  | 0.499  | 0.790  | 0.842  | 1.475  | 6.943  |
| 20   | 4.239  | 1.788  | 4.559  | 3.211  | 2.220  | 0.968  | 0.678  | 0.529  | 0.991  | 0.819  | 2.816  | 5.192  |
| 21   | 24.515 | 1.512  | 8.216  | 3.039  | 2.049  | 0.946  | 0.611  | 0.440  | 1.363  | 0.730  | 3.389  | 4.358  |
| 22   | 25.297 | 5.877  | 8.224  | 2.994  | 2.034  | 0.864  | 0.574  | 0.655  | 1.065  | 0.708  | 3.270  | 3.680  |
| 23   | 19.911 | 4.574  | 8.134  | 2.875  | 2.317  | 1.832  | 0.663  | 0.708  | 0.924  | 0.715  | 2.890  | 3.151  |
| 24   | 14.771 | 3.836  | 7.144  | 2.525  | 1.840  | 1.214  | 0.730  | 0.536  | 0.805  | 0.700  | 2.577  | 2.979  |
| 25   | 12.030 | 3.717  | 5.631  | 2.197  | 1.624  | 1.594  | 0.618  | 0.462  | 0.805  | 0.730  | 2.443  | 2.950  |
| 26   | 9.915  | 3.300  | 5.132  | 2.904  | 1.497  | 1.371  | 0.596  | 0.454  | 0.790  | 0.670  | 1.914  | 2.421  |
| 27   | 10.108 | 3.047  | 4.447  | 1.840  | 1.415  | 1.251  | 0.559  | 0.432  | 0.693  | 0.611  | 1.654  | 2.190  |
| 28   | 11.017 | 3.047  | 4.037  | 1.743  | 1.318  | 2.302  | 1.222  | 0.477  | 1.467  | 0.596  | 1.594  | 2.027  |
| 29   | 10.913 | 3.710  | 1.691  | 1.512  | 3.173  | 3.680  | 0.760  | 1.311  | 0.574  | 1.385  | 1.855  |        |
| 30   | 9.863  | 5.617  | 1.676  | 1.378  | 5.535  | 2.414  | 0.834  | 1.110  | 0.551  | 1.192  | 1.728  |        |
| 31   | 8.194  | 19.025 |        | 1.385  |        | 1.274  | 0.574  |        | 0.544  |        | 1.691  |        |
| MEAN   | 8.1351 | 3.1164 | 7.6177 | 7.8426 | 2.1951 | 1.3748 | 2.1850 | 1.1332 | 1.1650 | 0.7870 | 1.4841 | 4.8373 |
| INCHES   | 3.385  | 1.171  | 3.170  | 3.158  | 0.914  | 0.554  | 0.909  | 0.472  | 0.469  | 0.327  | 0.598  | 2.013  |
| STA AV   | 1.745  | 2.416  | 2.935  | 2.428  | 1.702  | 2.902  | 0.691  | 0.472  | 0.755  | 0.345  | 1.480  | 2.885  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013425. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV based on 7 yr (1968-74) record period.

| 1974   |                   |          | SELECTED RUNOFF EVENT |                   |           | KLINGERSTOWN, PENNSYLVANIA |        |        | WATERSHED WE-38 |          |  |
|--|-------------------|----------|-----------------------|-------------------|-----------|----------------------------|--------|--------|-----------------|----------|--|
| ANTECEDENT CONDITIONS  |                   |          | RAINFALL              |                   |           | RUNOFF                     |        |        |                 |          |  |
| Date   | Rainfall          | Runoff   | Date                  | Time              | Intensity | Acc.                       | Date   | Time   | Rate            | Acc.     |  |
| Mo-Day   | (inches)          | (inches) | Mo-Day                | of Day            | (in/hr)   | (inches)                   | Mo-Day | of Day | (cfs)           | (inches) |  |
| EVENT OF JULY 29 - 30, 1974  |                   |          |                       |                   |           |                            |        |        |                 |          |  |
| 7-29   | RG 00HE37<br>0.10 | 0.010    | 7-29                  | RG 00HE37<br>1920 | 0.0       | 0.0                        | 7-29   | 1925   | 0.976           | 0.0      |  |
|  |                   |          |                       | 1925              | 1.2001    | 0.10                       |        | 1935   | 1.127           | 0.0001   |  |
|  |                   |          |                       | 1935              | 1.2000    | 0.30                       |        | 1940   | 1.208           | 0.0001   |  |
|  |                   |          |                       | 1940              | 1.2001    | 0.40                       |        | 1950   | 1.565           | 0.0002   |  |
|  |                   |          |                       | 1955              | 0.4000    | 0.50                       |        | 1955   | 1.871           | 0.0003   |  |
| WATERSHED CONDITIONS:<br>Mixed cover area, 4-yr<br>rotation of corn, small grain,<br>small grain and native<br>grasses, most of which is<br>heavily contoured. Vegetative<br>cover: Corn, 20.4%; small<br>grain, 20.0%; pasture, 4.0%;<br>hay, 12.9%; vegetables, 0.7%;<br>idle, 0.6%; orchard, 0.5%;<br>homesteads and roads, 3.1%;<br>forest, 37.8%. |                   |          |                       |                   |           |                            |        |        |                 |          |  |
|  |                   |          |                       | 2000              | 1.2001    | 0.60                       |        | 2005   | 3.453           | 0.0006   |  |
|  |                   |          |                       | 2005              | 1.1999    | 0.70                       |        | 2010   | 4.852           | 0.0008   |  |
|  |                   |          |                       | 2010              | 1.2001    | 0.80                       |        | 2015   | 6.785           | 0.0010   |  |
|  |                   |          |                       | 2015              | 2.4000    | 1.00                       |        | 2020   | 10.628          | 0.0014   |  |
|  |                   |          |                       | 2030              | 0.4000    | 1.10                       |        | 2025   | 15.996          | 0.0020   |  |
|  |                   |          |                       | 2045              | 0.4000    | 1.20                       |        | 2030   | 21.255          | 0.0029   |  |
|  |                   |          |                       | 2150              | 0.0       | 1.20                       |        | 2035   | 26.379          | 0.0040   |  |
|  |                   |          |                       | 2155              | 1.2001    | 1.30                       |        | 2040   | 34.742          | 0.0054   |  |
|  |                   |          |                       |                   |           |                            |        | 2045   | 39.445          | 0.0072   |  |
|  |                   |          |                       |                   |           |                            |        | 2050   | 39.445          | 0.0090   |  |
|  |                   |          |                       |                   |           |                            |        | 2100   | 35.378          | 0.0125   |  |
|  |                   |          |                       |                   |           |                            |        | 2105   | 34.742          | 0.0141   |  |
|  |                   |          |                       |                   |           |                            |        | 2110   | 33.470          | 0.0157   |  |
|  |                   |          |                       |                   |           |                            |        | 2120   | 32.198          | 0.0188   |  |
|  |                   |          |                       |                   |           |                            |        | 2130   | 28.635          | 0.0217   |  |
|  |                   |          |                       |                   |           |                            |        | 2135   | 26.379          | 0.0229   |  |
|  |                   |          |                       |                   |           |                            |        | 2140   | 23.732          | 0.0241   |  |
|  |                   |          |                       |                   |           |                            |        | 2145   | 22.246          | 0.0252   |  |
|  |                   |          |                       |                   |           |                            |        | 2150   | 20.793          | 0.0262   |  |
|  |                   |          |                       |                   |           |                            |        | 2155   | 18.944          | 0.0271   |  |
|  |                   |          |                       |                   |           |                            |        | 2205   | 16.395          | 0.0287   |  |
|  |                   |          |                       |                   |           |                            |        | 2210   | 15.199          | 0.0295   |  |
|  |                   |          |                       |                   |           |                            |        | 2215   | 14.045          | 0.0302   |  |
|  |                   |          |                       |                   |           |                            |        | 2225   | 12.608          | 0.0314   |  |
|  |                   |          |                       |                   |           |                            |        | 2230   | 11.925          | 0.0320   |  |
|  |                   |          |                       |                   |           |                            |        | 2240   | 10.628          | 0.0330   |  |
|  |                   |          |                       |                   |           |                            |        | 2245   | 10.321          | 0.0335   |  |
|  |                   |          |                       |                   |           |                            |        | 2250   | 9.718           | 0.0340   |  |
|  |                   |          |                       |                   |           |                            |        | 2300   | 9.137           | 0.0348   |  |
|  |                   |          |                       |                   |           |                            |        | 2305   | 8.578           | 0.0353   |  |
|  |                   |          |                       |                   |           |                            |        | 2335   | 7.028           | 0.0374   |  |
|  |                   |          |                       |                   |           |                            |        | 2340   | 7.028           | 0.0378   |  |
|  |                   |          |                       |                   |           |                            |        | 2345   | 6.785           | 0.0381   |  |
|  |                   |          |                       |                   |           |                            |        | 2400   | 6.098           | 0.0390   |  |
|  |                   |          |                       |                   |           |                            | 7-30   | 10     | 5.663           | 0.0395   |  |
|  |                   |          |                       |                   |           |                            |        | 15     | 5.663           | 0.0398   |  |
|  |                   |          |                       |                   |           |                            |        | 20     | 5.451           | 0.0401   |  |
|  |                   |          |                       |                   |           |                            |        | 25     | 5.248           | 0.0403   |  |
|  |                   |          |                       |                   |           |                            |        | 30     | 5.248           | 0.0406   |  |
|  |                   |          |                       |                   |           |                            |        | 35     | 5.045           | 0.0408   |  |
|  |                   |          |                       |                   |           |                            |        | 45     | 5.045           | 0.0413   |  |
|  |                   |          |                       |                   |           |                            |        | 55     | 4.659           | 0.0417   |  |
|  |                   |          |                       |                   |           |                            |        | 100    | 4.659           | 0.0419   |  |
|  |                   |          |                       |                   |           |                            |        | 105    | 4.475           | 0.0421   |  |
|  |                   |          |                       |                   |           |                            |        | 110    | 4.475           | 0.0423   |  |
|  |                   |          |                       |                   |           |                            |        | 115    | 4.291           | 0.0426   |  |
|  |                   |          |                       |                   |           |                            |        | 120    | 4.291           | 0.0428   |  |
|  |                   |          |                       |                   |           |                            |        | 125    | 4.116           | 0.0429   |  |
|  |                   |          |                       |                   |           |                            |        | 140    | 4.116           | 0.0435   |  |
|  |                   |          |                       |                   |           |                            |        | 145    | 3.942           | 0.0437   |  |
|  |                   |          |                       |                   |           |                            |        | 150    | 3.942           | 0.0439   |  |
|  |                   |          |                       |                   |           |                            |        | 155    | 3.776           | 0.0441   |  |
|  |                   |          |                       |                   |           |                            |        | 210    | 3.776           | 0.0446   |  |
|  |                   |          |                       |                   |           |                            |        | 215    | 3.610           | 0.0448   |  |
|  |                   |          |                       |                   |           |                            |        | 230    | 3.610           | 0.0453   |  |
|  |                   |          |                       |                   |           |                            |        | 235    | 3.453           | 0.0454   |  |
|  |                   |          |                       |                   |           |                            |        | 255    | 3.453           | 0.0461   |  |
|  |                   |          |                       |                   |           |                            |        | 300    | 3.297           | 0.0462   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



## MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.  
Lat. 38 deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. W.

AREA: 153.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       |         |       |          |       | MCCREDIE, MISSOURI STATION RESERVOIR W-1 |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|--|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual                                   |       |
| 1974  | P | 3.66              | 2.38  | 2.11   | 3.28  | 6.64    | 3.89  | 1.70                                      | 7.09  | 0.95    | 1.30  | 3.65     | 1.69  | 38.34                                    |       |
|   | Q | 4.836             | 1.460 | 0.773  | 0.355 | 2.128   | 1.550 | 0.012                                     | 0.273 | 0.035   | 0.0   | 0.550    | 0.441 | 12.413                                   |       |
| STA AV  | P | 1.52              | 1.56  | 2.81   | 3.67  | 4.36    | 4.40  | 3.62                                      | 2.86  | 3.89    | 3.51  | 2.09     | 1.80  | 36.09                                    |       |
|   | Q | 0.690             | 0.687 | 1.258  | 1.124 | 0.924   | 1.000 | 0.502                                     | 0.126 | 0.503   | 1.039 | 0.433    | 0.448 | 8.734                                    |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |  |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day                                    |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date                                     | Vol.  |
| 1974  |   | 5-30              | 0.310 | 5-30   | 0.284 | 5-30    | 0.512 | 5-30                                      | 1.259 | 5-30    | 1.391 | 5-30     | 1.418 | 1-16                                     | 1.732 |
|   |   |                   |       |        |       |         |       |   |       |         |       |          |       | 1-16                                     | 3.165 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |  |       |
|   |   | 10-13             | 2.269 | 10-13  | 1.365 | 10-13   | 2.236 | 10-4                                      | 3.960 | 10-4    | 7.000 | 10-4     | 7.775 | 10-3                                     | 8.090 |
|   |   | 1968              |       | 1968   |       | 1968    |       | 1941                                      |       | 1941    |       | 1941     |       | 1941                                     |       |

NOTES: Watershed conditions: 42% Pasture and meadow; 37% corn; 13% soybeans; 2% grain sorghum; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25.1-13. For long-time precipitation records, see National Weather Service records at Columbia, Missouri (1890-1974).

| 1974 DAILY AIR TEMPERATURE (degrees F) |         |         |         |         |         |         |         |         |         |         |         |         |         | MCCREDIE, MISSOURI STATION RESERVOIR W-1 |  |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| Day                                    | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |         |  |  |
|  | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min |  |  |
| 1                                      | 7 -14   | 53 23   | 56 32   | 61 54   | 70 45   | 72 54   | 90 60   | 89 65   | 68 58   | 60 37   | 70 53   | 32 30   |         |  |  |
| 2                                      | 17 9    | 53 27   | 74 46   | 75 41   | 70 52   | 77 53   | 93 71   | 85 65   | 66 47   | 60 29   | 66 48   | 31 23   |         |  |  |
| 3                                      | 20 9    | 34 28   | 78 58   | 75 56   | 64 50   | 79 55   | 93 72   | 84 54   | 62 45   | 59 32   | 60 47   | 28 7    |         |  |  |
| 4                                      | 21 -2   | 31 14   | 74 46   | 72 36   | 65 45   | 79 61   | 92 66   | 75 52   | 63 40   | 74 48   | 44 42   | 37 8    |         |  |  |
| 5                                      | 28 10   | 58 27   | 74 35   | 46 33   | 70 45   | 78 64   | 82 62   | 82 54   | 68 44   | 74 52   | 42 33   | 44 22   |         |  |  |
| 6                                      | 24 17   | 58 24   | 79 45   | 62 26   | 62 47   | 79 63   | 85 60   | 82 59   | 71 45   | 72 57   | 50 40   | 41 36   |         |  |  |
| 7                                      | 18 2    | 24 17   | 83 50   | 62 47   | 70 46   | 77 63   | 91 66   | 76 63   | 76 54   | 58 35   | 49 31   | 39 36   |         |  |  |
| 8                                      | 27 9    | 24 15   | 81 62   | 49 36   | 70 54   | 75 61   | 92 70   | 85 61   | 76 54   | 66 32   | 58 31   | 38 19   |         |  |  |
| 9                                      | 27 5    | 30 19   | 73 58   | 63 29   | 62 45   | 77 66   | 91 69   | 84 68   | 74 58   | 67 46   | 54 34   | 37 15   |         |  |  |
| 10                                     | 16 9    | 44 26   | 70 42   | 67 41   | 62 43   | 74 59   | 95 69   | 83 68   | 81 62   | 71 36   | 51 45   | 50 26   |         |  |  |
| 11                                     | 16 6    | 54 19   | 60 44   | 65 50   | 70 60   | 76 55   | 94 71   | 85 67   | 81 64   | 77 44   | 54 46   | 48 31   |         |  |  |
| 12                                     | 11 -13  | 61 35   | 60 39   | 66 55   | 69 48   | 76 53   | 96 69   | 88 65   | 78 66   | 77 57   | 52 34   | 39 34   |         |  |  |
| 13                                     | 29 6    | 61 34   | 46 32   | 80 44   | 86 46   | 79 56   | 96 70   | 87 68   | 77 47   | 73 54   | 46 28   | 46 31   |         |  |  |
| 14                                     | 40 18   | 57 29   | 53 29   | 80 42   | 86 57   | 85 63   | 96 70   | 85 65   | 66 41   | 61 52   | 36 25   | 46 28   |         |  |  |
| 15                                     | 44 32   | 40 29   | 53 44   | 60 38   | 69 47   | 81 61   | 98 72   | 85 64   | 68 46   | 58 37   | 49 25   | 46 34   |         |  |  |
| 16                                     | 50 34   | 46 28   | 46 30   | 60 42   | 85 65   | 79 52   | 88 63   | 82 66   | 65 56   | 67 37   | 45 36   | 33 31   |         |  |  |
| 17                                     | 50 31   | 60 26   | 43 26   | 63 38   | 85 64   | 75 52   | 93 60   | 83 64   | 75 52   | 72 42   | 54 34   | 31 22   |         |  |  |
| 18                                     | 55 41   | 46 42   | 69 29   | 69 45   | 77 62   | 84 56   | 97 71   | 82 62   | 82 54   | 72 39   | 57 36   | 40 18   |         |  |  |
| 19                                     | 44 34   | 44 32   | 69 33   | 74 49   | 83 67   | 85 66   | 98 74   | 88 59   | 82 55   | 63 36   | 60 49   | 38 23   |         |  |  |
| 20                                     | 42 36   | 54 27   | 40 22   | 80 55   | 88 66   | 91 74   | 97 74   | 90 65   | 72 58   | 60 38   | 59 38   | 42 30   |         |  |  |
| 21                                     | 39 34   | 54 37   | 36 22   | 79 57   | 87 67   | 91 74   | 97 72   | 90 67   | 69 47   | 61 34   | 52 31   | 37 30   |         |  |  |
| 22                                     | 44 38   | 41 30   | 49 24   | 67 50   | 78 60   | 86 71   | 92 73   | 89 68   | 66 37   | 71 39   | 68 32   | 59 25   |         |  |  |
| 23                                     | 41 27   | 39 22   | 49 15   | 67 43   | 79 58   | 71 53   | 92 64   | 83 65   | 64 37   | 70 49   | 70 54   | 37 29   |         |  |  |
| 24                                     | 46 24   | 35 12   | 28 5    | 62 33   | 76 54   | 70 51   | 86 61   | 81 63   | 64 42   | 73 54   | 69 35   | 36 28   |         |  |  |
| 25                                     | 51 26   | 29 7    | 45 15   | 75 47   | 76 55   | 72 52   | 84 61   | 86 64   | 71 52   | 72 56   | 41 24   | 28 19   |         |  |  |
| 26                                     | 51 34   | 50 16   | 62 33   | 80 50   | 64 55   | 76 53   | 90 65   | 88 70   | 71 48   | 71 46   | 52 27   | 30 15   |         |  |  |
| 27                                     | 42 34   | 57 37   | 71 41   | 82 58   | 72 57   | 80 56   | 96 66   | 87 71   | 70 51   | 72 48   | 49 29   | 36 29   |         |  |  |
| 28                                     | 35 33   | 57 43   | 71 52   | 81 62   | 81 66   | 82 55   | 98 68   | 81 61   | 69 56   | 70 48   | 46 27   | 37 30   |         |  |  |
| 29                                     | 50 29   |         | 65 52   | 66 64   | 82 68   | 86 58   | 86 66   | 75 61   | 67 40   | 75 58   | 34 28   | 47 36   |         |  |  |
| 30                                     | 58 32   |         | 64 39   | 63 58   | 86 62   | 89 68   | 86 57   | 77 56   | 67 41   | 79 57   | 30 27   | 44 30   |         |  |  |
| 31                                     | 58 29   |         | 72 40   |         | 86 58   |         | 91 57   | 76 64   |         | 73 60   |         | 39 34   |         |  |  |
| AV.                                    | 36 20   | 46 26   | 61 37   | 68 46   | 75 55   | 79 59   | 92 67   | 84 63   | 71 50   | 69 45   | 52 36   | 39 26   |         |  |  |
| MEAN                                   | 27.8    | 36.1    | 48.9    | 57.2    | 65.3    | 69.4    | 79.5    | 73.5    | 60.5    | 56.8    | 44.0    | 32.7    |         |  |  |
| STA AV                                 | 39 20   | 43 23   | 52 30   | 67 43   | 75 52   | 83 61   | 88 65   | 88 63   | 81 55   | 70 45   | 54 33   | 41 24   |         |  |  |

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 33 yr record period.



| 1969   | DAILY PRECIPITATION (inches) |      |      |      |      | HCCREDIE, MISSOURI |      |      |       | STATION RESERVOIR W-1 |      |      |
|--------|------------------------------|------|------|------|------|--------------------|------|------|-------|-----------------------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                | Jul  | Aug  | Sep   | Oct                   | Nov  | Dec  |
| 1      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.15 | 0.15  | 0.0                   | 0.0  | 0.05 |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.78 | 0.0                | 0.0  | 0.24 | 0.26  | 0.0                   | 0.14 | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.99 | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.03 | 0.0  | 0.0                | 1.28 | 0.0  | 0.0   | 0.0                   | 1.05 | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.04 |
| 6      | 0.0                          | 0.37 | 0.0  | 0.0  | 0.0  | 1.42               | 0.0  | 0.19 | 0.0   | 0.06                  | 0.0  | 0.28 |
| 7      | 0.0                          | 0.0  | 0.0  | 0.55 | 0.43 | 0.42               | 0.0  | 0.32 | 0.0   | 0.0                   | 0.0  | 0.0  |
| 8      | 0.14                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.53               | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 9      | 0.21                         | 0.0  | 0.22 | 0.0  | 0.03 | 0.25               | 0.0  | 1.14 | 0.01  | 0.0                   | 0.10 | 0.0  |
| 10     | 0.06                         | 0.0  | 1.27 | 0.19 | 0.19 | 0.0                | 0.0  | 0.04 | 0.0   | 0.0                   | 0.83 | 0.0  |
| 11     | 0.0                          | 0.0  | 0.10 | 0.28 | 0.15 | 0.18               | 0.0  | 0.0  | 0.11  | 0.02                  | 0.0  | 0.53 |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.16                  | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.13 | 0.0  | 0.05               | 0.0  | 0.0  | 0.0   | 0.12                  | 0.05 | 0.0  |
| 14     | 0.0                          | 0.0  | 0.0  | 0.20 | 1.49 | 0.20               | 0.12 | 0.0  | 0.0   | 0.42                  | 0.0  | 0.17 |
| 15     | 0.0                          | 0.0  | 0.20 | 0.0  | 0.0  | 0.24               | 0.18 | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.85 | 0.0  | 0.0                | 0.0  | 0.45 | 0.0 T | 0.0                   | 0.03 | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.30 | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 18     | 0.74                         | 1.06 | 0.0  | 0.0  | 0.32 | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 19     | 0.11                         | 0.29 | 0.0  | 0.0  | 0.0  | 0.55               | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 20     | 0.19                         | 0.0  | 0.08 | 0.24 | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 21     | 0.0                          | 0.52 | 0.0  | 0.03 | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 22     | 0.64                         | 0.05 | 0.0  | 0.0  | 0.35 | 0.0                | 0.07 | 1.45 | 0.0   | 0.0                   | 0.0  | 0.0  |
| 23     | 0.0                          | 0.03 | 0.12 | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.22 |
| 24     | 0.0                          | 0.06 | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.08 |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.15 | 0.0                | 0.05 | 0.15 | 0.0   | 0.0                   | 0.0  | 0.0  |
| 26     | 1.28                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.0                   | 0.0  | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                | 0.0  | 1.00 | 0.0   | 0.0                   | 0.0  | 0.0  |
| 28     | 0.29                         | 0.0  | 0.07 | 0.0  | 0.0  | 0.0                | 0.0  | 0.90 | 0.42  | 0.02                  | 0.0  | 0.0  |
| 29     | 0.0                          | 0.05 | 0.78 | 0.07 | 0.0  | 0.0                | 0.0  | 0.0  | 0.0   | 0.01                  | 0.44 | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 2.31 | 0.05               | 0.0  | 0.0  | 0.0   | 0.0                   | 0.02 | 0.09 |
| 31     | 0.0                          | 0.0  | 0.0  | 0.07 | 0.0  | 0.0                | 0.0  | 1.06 | 0.0   | 0.49                  | 0.23 | 0.0  |
| TOTAL  | 3.66                         | 2.38 | 2.11 | 3.28 | 6.64 | 3.89               | 1.70 | 7.09 | 0.95  | 1.30                  | 3.65 | 1.69 |
| STA AV | 1.52                         | 1.56 | 2.81 | 3.67 | 4.36 | 4.40               | 3.62 | 2.86 | 3.89  | 3.51                  | 2.09 | 1.80 |

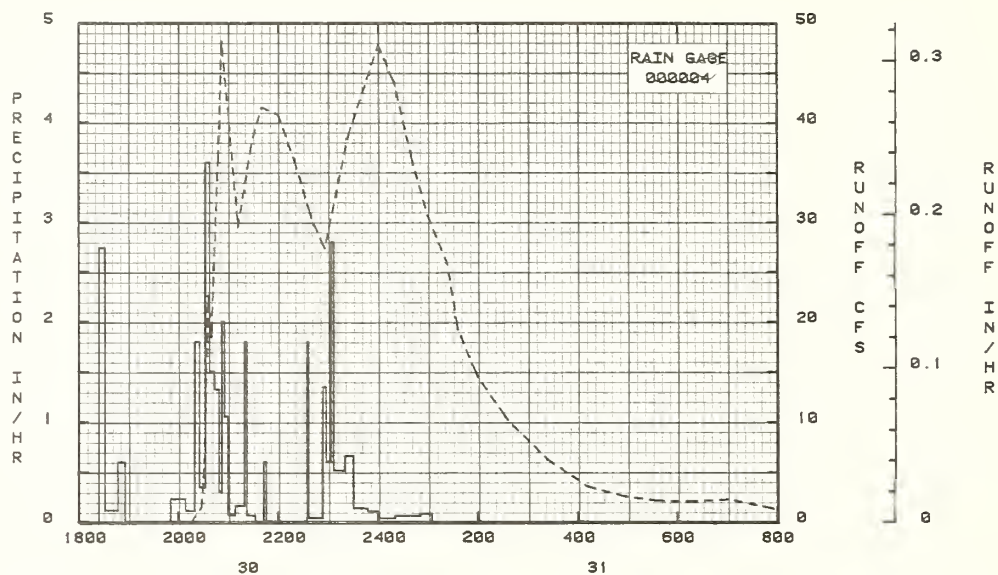
NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage.  
STA AV values are for 33 yr record period.

| 1974   | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | HCCREDIE, MISSOURI |        |        |        | STATION RESERVOIR W-1 |        |        |
|--------|----------------------------|--------|--------|--------|--------|--------------------|--------|--------|--------|-----------------------|--------|--------|
| Day    | Jan                        | Feb    | Mar    | Apr    | May    | Jun                | Jul    | Aug    | Sep    | Oct                   | Nov    | Dec    |
| 1      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.064              | 0.0    | 0.0    | 0.225  | 0.0                   | 0.0    | 0.022  |
| 2      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.848  | 0.004              | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 3      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.054  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.003  | 0.0    |
| 4      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.076  | 0.0    | 0.0    | 0.0                   | 1.114  | 0.0    |
| 5      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.271  | 0.006  |
| 6      | 0.0                        | 0.483  | 0.0    | 0.0    | 0.0    | 1.296              | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.513  |
| 7      | 0.0                        | 0.057  | 0.0    | 0.075  | 0.0    | 4.656              | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.583  |
| 8      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 2.717              | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 9      | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 1.245              | 0.0    | 0.151  | 0.0    | 0.0                   | 0.006  | 0.0    |
| 10     | 0.0                        | 0.0    | 2.363  | 0.0    | 0.0    | 0.038              | 0.0    | 0.035  | 0.0    | 0.0                   | 1.841  | 0.0    |
| 11     | 0.0                        | 0.0    | 2.537  | 0.182  | 0.0    | 0.007              | 0.0    | 0.0    | 0.0    | 0.0                   | 0.228  | 0.694  |
| 12     | 0.0                        | 0.0    | 0.102  | 0.033  | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.195  |
| 13     | 0.0                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.001  |
| 14     | 0.0                        | 0.0    | 0.0    | 0.0    | 2.472  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.157  |
| 15     | 0.0                        | 0.0    | 0.0    | 0.0    | 0.241  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.201  |
| 16     | 1.907                      | 0.0    | 0.0    | 1.980  | 0.062  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 17     | 3.473                      | 0.0    | 0.0    | 0.025  | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 18     | 7.120                      | 1.203  | 0.0    | 0.0    | 0.763  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 19     | 1.055                      | 3.851  | 0.0    | 0.0    | 0.119  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 20     | 1.873                      | 0.126  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 21     | 0.565                      | 1.531  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 22     | 3.793                      | 1.423  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 23     | 0.566                      | 0.117  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 24     | 0.303                      | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 25     | 0.209                      | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 26     | 6.750                      | 0.393  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.0    | 0.0    |
| 27     | 0.960                      | 0.214  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.355  | 0.0    | 0.0                   | 0.0    | 0.0    |
| 28     | 1.691                      | 0.051  | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.340  | 0.0    | 0.0                   | 0.0    | 0.0    |
| 29     | 0.547                      | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.046  | 0.0    |
| 30     | 0.328                      | 0.0    | 0.0    | 0.0    | 5.275  | 0.0                | 0.0    | 0.0    | 0.0    | 0.0                   | 0.051  | 0.001  |
| 31     | 0.151                      | 0.0    | 0.0    | 0.0    | 3.933  | 0.0                | 0.0    | 0.887  | 0.0    | 0.0                   | 0.0    | 0.481  |
| MEAN   | 1.0094                     | 0.3375 | 0.1613 | 0.0765 | 0.4441 | 0.3342             | 0.0024 | 0.0571 | 0.0075 | 0.0                   | 0.1187 | 0.0920 |
| INCHES | 4.836                      | 1.460  | 0.773  | 0.355  | 2.128  | 1.550              | 0.012  | 0.273  | 0.035  | 0.0                   | 0.550  | 0.441  |
| STA AV | 0.690                      | 0.687  | 1.258  | 1.124  | 0.924  | 1.000              | 0.502  | 0.126  | 0.503  | 1.039                 | 0.433  | 0.448  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.155557. STA AV values are for 33 yr record period.

| 1974 SELECTED RUNOFF EVENT   |                      |                    | MCCREDIE, MISSOURI STATION RESERVOIR W-1 |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|--|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS  |                      |                    | RAINFALL                                 |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day   | Rainfall<br>(inches) | Rnnoff<br>(inches) | Date<br>Mo-Day                           | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MAY 30 - 31, 1974   |                      |                    |  |                |                      |                  |                |                |               |                  |
| RG 000004  |                      |                    | RG 000004                                |                |                      |                  |                |                |               |                  |
| 5-30   | 0.0                  | 0.0                | 5-30                                     | 1825           | 0.0                  | 0.0              | 5-30           | 1900           | 0.0           | 0.0              |
|  |                      |                    |  | 1832           | 2.7429               | 0.32             |                | 1956           | 0.016         | 0.0              |
|  |                      |                    |  | 1848           | 0.1125               | 0.35             |                | 2016           | 0.037         | 0.0001           |
|  |                      |                    |  | 1856           | 0.6000               | 0.43             |                | 2028           | 1.522         | 0.0011           |
|  |                      |                    |  | 1951           | 0.0                  | 0.43             |                | 2032           | 6.071         | 0.0027           |
| WATERSHED CONDITIONS:<br>42% pasture and meadow,<br>8-12 in. tall; 37% corn,<br>6-8 in. tall; 13% soy-<br>beans, 4-6 in. tall; 2%<br>grain sorghum, 6-8 in<br>tall; and 6% roads and<br>farmstead. |                      |                    |  | 2009           | 0.2334               | 0.50             |                | 2036           | 22.680        | 0.0090           |
|  |                      |                    |  | 2020           | 0.1091               | 0.52             |                | 2040           | 18.444        | 0.0178           |
|  |                      |                    |  | 2026           | 1.7999               | 0.70             |                | 2048           | 37.147        | 0.0419           |
|  |                      |                    |  | 2033           | 0.3429               | 0.74             |                | 2052           | 48.159        | 0.0603           |
|  |                      |                    |  | 2038           | 3.5999               | 1.04             |                | 2112           | 29.479        | 0.1442           |
|  |                      |                    |  | 2044           | 1.5001               | 1.19             |                | 2128           | 37.805        | 0.2023           |
|  |                      |                    |  | 2049           | 1.3200               | 1.30             |                | 2140           | 41.516        | 0.2537           |
|  |                      |                    |  | 2053           | 0.2998               | 1.32             |                | 2200           | 40.743        | 0.3426           |
|  |                      |                    |  | 2056           | 2.0001               | 1.42             |                | 2220           | 36.044        | 0.4256           |
|  |                      |                    |  | 2100           | 1.0501               | 1.49             |                | 2240           | 30.388        | 0.4973           |
|  |                      |                    |  | 2109           | 0.0666               | 1.50             |                | 2256           | 27.320        | 0.5472           |
|  |                      |                    |  | 2120           | 0.1636               | 1.53             |                | 2324           | 38.718        | 0.6471           |
|  |                      |                    |  | 2123           | 1.7999               | 1.62             |                | 2400           | 47.765        | 0.8153           |
|  |                      |                    |  | 2133           | 0.0601               | 1.63             | 5-31           | 20             | 43.721        | 0.9141           |
|  |                      |                    |  | 2143           | 0.0                  | 1.63             |                | 40             | 36.476        | 1.0007           |
|  |                      |                    |  | 2146           | 0.6000               | 1.66             |                | 100            | 30.584        | 1.0732           |
|  |                      |                    |  | 2235           | 0.0                  | 1.66             |                | 124            | 25.653        | 1.1461           |
|  |                      |                    |  | 2237           | 1.7999               | 1.72             |                | 136            | 19.232        | 1.1752           |
|  |                      |                    |  | 2254           | 0.0353               | 1.73             |                | 200            | 14.458        | 1.2189           |
|  |                      |                    |  | 2258           | 1.3499               | 1.82             |                | 236            | 10.174        | 1.2668           |
|  |                      |                    |  | 2304           | 0.6001               | 1.88             |                | 324            | 6.195         | 1.3092           |
|  |                      |                    |  | 2307           | 2.8000               | 2.02             |                | 412            | 3.524         | 1.3344           |
|  |                      |                    |  | 2320           | 0.5077               | 2.13             |                | 500            | 2.496         | 1.3500           |
|  |                      |                    |  | 2330           | 0.6600               | 2.24             |                | 544            | 2.048         | 1.3608           |
|  |                      |                    |  | 2348           | 0.1333               | 2.28             |                | 624            | 2.072         | 1.3697           |
|  |                      |                    | 5-31                                     | 2400           | 0.1000               | 2.30             |                | 700            | 2.259         | 1.3781           |
|  |                      |                    |  | 20             | 0.0300               | 2.31             |                | 756            | 1.330         | 1.3890           |
|  |                      |                    |  | 50             | 0.0600               | 2.34             |                | 844            | 0.531         | 1.3938           |
|  |                      |                    |  | 105            | 0.0800               | 2.36             |                | 920            | 0.533         | 1.3959           |
|  |                      |                    |  |                |                      |                  |                | 1050           | 0.498         | 1.4009           |
|  |                      |                    |  |                |                      |                  |                | 1212           | 0.071         | 1.4034           |
|  |                      |                    |  |                |                      |                  |                | 1328           | 0.284         | 1.4049           |
|  |                      |                    |  |                |                      |                  |                | 1500           | 0.356         | 1.4080           |
|  |                      |                    |  |                |                      |                  |                | 1616           | 0.425         | 1.4113           |
|  |                      |                    |  |                |                      |                  |                | 1740           | 0.321         | 1.4146           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00648. Event precipitation totals for rain gages R-2, R-3, S-6 and R-8 are 2.40, 2.36, 2.41 and 2.43 respectively and the Thiessen average event precipitation is 2.38 inches.



EVENT OF MAY 30 - 31, 1974  
 MCCREDDIE, MISSOURI STATION RESERVOIR W-1

## COSBOCTON. ORTO. WATERSBED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 25 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.26 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | COSHOCTON, OHIO WATERSHED 102 |       |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|-------------------------------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                           | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 3.03              | 1.93  | 4.64   | 3.40  | 4.53                          | 2.83  | 2.83                                      | 7.30  | 3.49    | 1.28  | 3.43     | 4.34  | 43.03  |       |        |       |        |      |
|   | Q | 0.012             | 0.0   | 0.020  | 0.338 | 0.0                           | 0.0   | 0.038                                     | 0.154 | 0.123   | 0.0   | 0.020    | 0.0   | 0.704  |       |        |       |        |      |
| STA AV  | P | 1.90              | 2.23  | 3.98   | 3.37  | 3.91                          | 4.35  | 4.11                                      | 3.14  | 2.46    | 2.35  | 2.61     | 2.49  | 36.89  |       |        |       |        |      |
|   | Q | 0.041             | 0.076 | 0.098  | 0.066 | 0.009                         | 0.132 | 0.154                                     | 0.037 | 0.018   | 0.009 | 0.007    | 0.001 | 0.647  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                               |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                       |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date                          | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 4- 3              | 1.236 | 4- 3   | 0.334 | 4- 3                          | 0.338 | 4- 3                                      | 0.338 | 4- 3    | 0.338 | 4- 2     | 0.338 | 4- 1   | 0.338 | 3-26   | 0.358 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                               |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6-12              | 3.640 | 6-12   | 1.310 | 7- 5                          | 1.427 | 7- 5                                      | 2.470 | 7- 5    | 2.470 | 7- 5     | 2.470 | 7- 5   | 2.470 | 6-29   | 2.597 |        |      |
|   |   | 1957              |       | 1957   |       | 1969                          |       | 1969                                      |       | 1969    |       | 1969     |       | 1969   |       | 1969   |       |        |      |

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974   | DAILY PRECIPITATION (inches) |        |        |       |       | COSROCTON, OHIO WATERSRSD 102 |       |       |       |       |       |       |  |
|--------|------------------------------|--------|--------|-------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|--|
| Day    | Jan                          | Feb    | Mar    | Apr   | May   | Jun                           | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |  |
| 1      | 0.0                          | 0.0    | 0.0    | 0.59  | 0.0   | 0.0                           | 0.0   | 0.0   | 0.84  | 0.0   | 0.0 T | 1.18S |  |
| 2      | 0.0                          | 0.0    | 0.19   | 0.05  | 0.19E | 0.0                           | 0.0   | 0.37  | 0.02  | 0.0   | 0.10  | 1.11S |  |
| 3      | 0.03E                        | 0.0 T  | 0.0    | 1.26  | 0.0 T | 0.0                           | 0.0   | 0.22  | 0.60  | 0.0   | 0.0   | 0.0 T |  |
| 4      | 0.0                          | 0.03S  | 0.02E  | 0.01  | 0.0   | 0.0                           | 0.52  | 0.43  | 0.0   | 0.0   | 1.24  | 0.0   |  |
| 5      | 0.0                          | 0.0 T  | 0.2E   | 0.0   | 0.05  | 0.0                           | 0.31  | 0.0   | 0.0   | 0.0   | 0.07  | 0.0   |  |
| 6      | 0.0                          | 0.76S  | 0.0    | 0.0   | 0.0 T | 0.0 T                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.14  | 0.0   |  |
| 7      | 0.01S                        | 0.01S  | 0.20   | 0.0   | 0.0   | 0.0 T                         | 0.0   | 0.0   | 0.0   | 0.04E | 0.0   | 0.23  |  |
| 8      | 0.11HZ                       | 0.0    | 0.0    | 0.30H | 0.15  | 0.0 T                         | 0.0   | 0.10  | 0.0   | 0.0   | 0.0   | 0.03  |  |
| 9      | 0.11HZ                       | 0.0    | 0.51   | 0.02E | 0.25  | 0.0                           | 0.14E | 0.16  | 0.0   | 0.0   | 0.0   | 0.0 T |  |
| 10     | 0.11HZ                       | 0.04SZ | 0.0    | 0.0   | 0.0   | 0.0                           | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 11     | 0.11HZ                       | 0.05SZ | 0.18   | 0.0   | 0.48  | 0.08                          | 0.0   | 0.08  | 0.0   | 0.0   | 0.49  | 0.0   |  |
| 12     | 0.11HZ                       | 0.0    | 0.0    | 0.0   | 1.00  | 0.0                           | 0.0   | 0.13  | 0.03E | 0.0   | 0.33  | 0.08  |  |
| 13     | 0.11HZ                       | 0.0    | 0.9    | 0.0   | 0.0   | 0.0                           | 0.0   | 0.05  | 0.40  | 0.0   | 0.02H | 0.0R  |  |
| 14     | 0.0                          | 0.0    | 0.0    | 0.27  | 0.0   | 0.0                           | 0.0   | 0.0   | 0.0   | 0.40E | 0.01H | 0.0   |  |
| 15     | 0.0                          | 0.0    | 0.44   | 0.0   | 0.10  | 1.01E                         | 0.01E | 0.0   | 0.0   | 0.48  | 0.0 T | 0.16H |  |
| 16     | 0.0                          | 0.0    | 0.18H  | 0.0   | 0.0   | 0.20                          | 0.0   | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 T |  |
| 17     | 0.0                          | 0.0    | 0.0    | 0.0   | 0.33E | 0.0                           | 0.0   | 0.60E | 0.0   | 0.0   | 0.0   | 0.05S |  |
| 18     | 0.51                         | 0.0    | 0.02   | 0.0   | 0.03E | 0.0                           | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   | 0.0 T |  |
| 19     | 0.77                         | 0.24   | 0.10   | 0.0   | 0.0   | 0.15                          | 0.0   | 0.0   | 0.0   | 0.04H | 0.02E | 0.08S |  |
| 20     | 0.14E                        | 0.0    | 0.01   | 0.0   | 0.0   | 0.09                          | 0.0   | 0.0   | 0.78  | 0.0 T | 0.21  | 0.0   |  |
| 21     | 0.08                         | 0.13   | 0.49H  | 0.0   | 0.0   | 0.41                          | 0.0   | 0.0   | 0.53  | 0.0   | 0.15S | 0.06S |  |
| 22     | 0.0                          | 0.31   | 0.0    | 0.24  | 0.71  | 0.83                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 23     | 0.51                         | 0.0    | 0.23SZ | 0.02H | 0.31  | 0.02E                         | 0.33E | 0.0   | 0.0   | 0.09  | 0.0   | 0.21  |  |
| 24     | 0.0                          | 0.99SZ | 0.23SZ | 0.0   | 0.33  | 0.0                           | 0.0   | 0.0   | 0.0   | 0.02  | 0.30  | 0.44  |  |
| 25     | 0.0                          | 0.10SZ | 0.0    | 0.0   | 0.0   | 0.0                           | 0.0   | 0.0   | 0.0   | 0.08E | 0.31S | 0.14  |  |
| 26     | 0.20                         | 0.9    | 0.0    | 0.0   | 0.0   | 0.01E                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 27     | 0.0                          | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                           | 0.0   | 0.77  | 0.09E | 0.0   | 0.02E | 0.03E |  |
| 28     | 0.12                         | 0.17E  | 0.04E  | 0.0   | 0.09  | 0.0                           | 0.0 T | 2.27  | 0.04  | 0.0   | 0.0   | 0.0   |  |
| 29     | 0.0                          |        | 1.29   | 0.0   | 0.48E | 0.0                           | 1.52  | 1.32  | 0.14  | 0.0   | 0.0   | 0.0   |  |
| 30     | 0.0                          |        | 0.23   | 0.64  | 0.0   | 0.03E                         | 0.0   | 0.24  | 0.0   | 0.06  | 0.02H | 0.0   |  |
| 31     | 0.0                          |        | 0.0    |       | 0.03  |                               | 0.0   | 0.56  |       | 0.0   |       | 0.50H |  |
| TOTAL  | 3.03                         | 1.93   | 4.64   | 3.40  | 4.53  | 2.83                          | 2.83  | 7.30  | 3.49  | 1.28  | 3.43  | 4.34  |  |
| STA AV | 1.90                         | 2.23   | 3.98   | 3.37  | 3.91  | 4.35                          | 4.11  | 3.14  | 2.46  | 2.35  | 2.61  | 2.49  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV based on 25 yr period, part-years records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

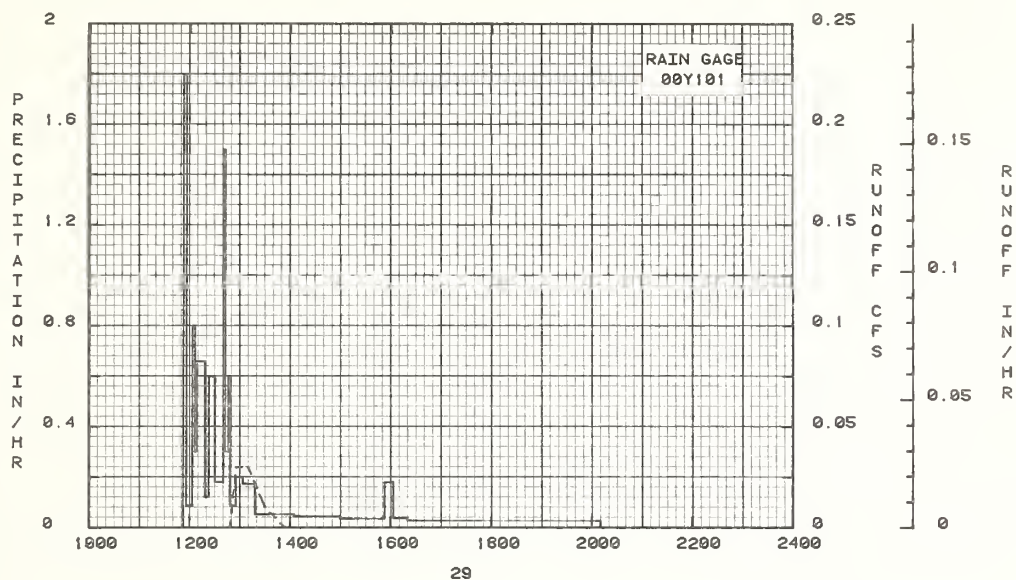


| 1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, OHIO WATERSHED 102 |       |       |       |        |       |       |        |        |        |       |       |       |
|---|-------|-------|-------|--------|-------|-------|--------|--------|--------|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr    | May   | Jnn   | Jnl    | Aug    | Sep    | Oct   | Nov   | Dec   |
| 1   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0   | 0.0   | 0.0   |
| 2   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 3   | 0.0   | 0.0   | 0.0   | 0.018  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 4   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.001 | 0.0   |
| 5   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 6   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 7   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 8   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 9   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 11  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 12  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 13  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 14  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 15  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 16  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 17  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 18  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 19  | 0.001 | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 20  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.003  | 0.0   | 0.0   | 0.0   |
| 21  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 22  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 23  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 24  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 25  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 26  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 27  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 28  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0   | 0.0   | 0.0   |
| 29  | 0.0   | 0.0   | 0.001 | 0.0    | 0.0   | 0.0   | 0.002  | 0.004  | 0.0    | 0.0   | 0.0   | 0.0   |
| 30  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |
| 31  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.003  | 0.0    | 0.0   | 0.0   | 0.0   |
| MEAN  | 0.0   | 0.0   | 0.0   | 0.0006 | 0.0   | 0.0   | 0.0001 | 0.0003 | 0.0002 | 0.0   | 0.0   | 0.0   |
| INCRS   | 0.012 | 0.0   | 0.020 | 0.338  | 0.0   | 0.0   | 0.038  | 0.154  | 0.123  | 0.0   | 0.020 | 0.0   |
| STA AV  | 0.041 | 0.076 | 0.098 | 0.066  | 0.009 | 0.132 | 0.154  | 0.037  | 0.018  | 0.009 | 0.007 | 0.001 |

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA AV based on 25 yr period, part-years records included.

| 1974 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 102                   |          |          |           |        |           |          |        |        |       |          |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |       |          |
| Date   | Rainfall | Rnnoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MARCH 29, 1974  |          |          |           |        |           |          |        |        |       |          |
| RG 00Y101  |          |          | RG 00Y101 |        |           |          |        |        |       |          |
| 3-29   | 0.47     | 0.0      | 3-29      | 1152   | 0.0       | 0.0      | 3-29   | 1248   | 0.0   | 0.0      |
|  |          |          |           | 1156   | 1.8000    | 0.12     |        | 1256   | 0.029 | 0.0016   |
|  |          |          |           | 1203   | 0.0857    | 0.13     |        | 1302   | 0.034 | 0.0040   |
|  |          |          |           | 1206   | 0.8000    | 0.17     |        | 1310   | 0.029 | 0.0074   |
|  |          |          |           | 1208   | 0.3000    | 0.18     |        | 1330   | 0.010 | 0.0125   |
| WATERSHED CONDITIONS:<br>Pasture of orchardgrass,<br>timothy, and alfalfa. |          |          |           | 1218   | 0.6600    | 0.29     |        | 1354   | 0.001 | 0.0143   |
|  |          |          |           | 1223   | 0.1200    | 0.30     |        | 2400   | 0.0   | 0.0199   |
|  |          |          |           | 1230   | 0.6000    | 0.37     |        |        |       |          |
|  |          |          |           | 1240   | 0.1800    | 0.40     |        |        |       |          |
|  |          |          |           | 1242   | 1.5000    | 0.45     |        |        |       |          |
|  |          |          |           | 1246   | 0.3000    | 0.47     |        |        |       |          |
|  |          |          |           | 1248   | 0.6000    | 0.49     |        |        |       |          |
|  |          |          |           | 1255   | 0.0857    | 0.50     |        |        |       |          |
|  |          |          |           | 1304   | 0.2000    | 0.53     |        |        |       |          |
|  |          |          |           | 1318   | 0.1714    | 0.57     |        |        |       |          |
|  |          |          |           | 1405   | 0.0511    | 0.61     |        |        |       |          |
|  |          |          |           | 1500   | 0.0436    | 0.65     |        |        |       |          |
|  |          |          |           | 1553   | 0.0340    | 0.68     |        |        |       |          |
|  |          |          |           | 1603   | 0.1800    | 0.71     |        |        |       |          |
|  |          |          |           | 1620   | 0.0353    | 0.72     |        |        |       |          |
|  |          |          |           | 2010   | 0.0261    | 0.82     |        |        |       |          |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.78772000.

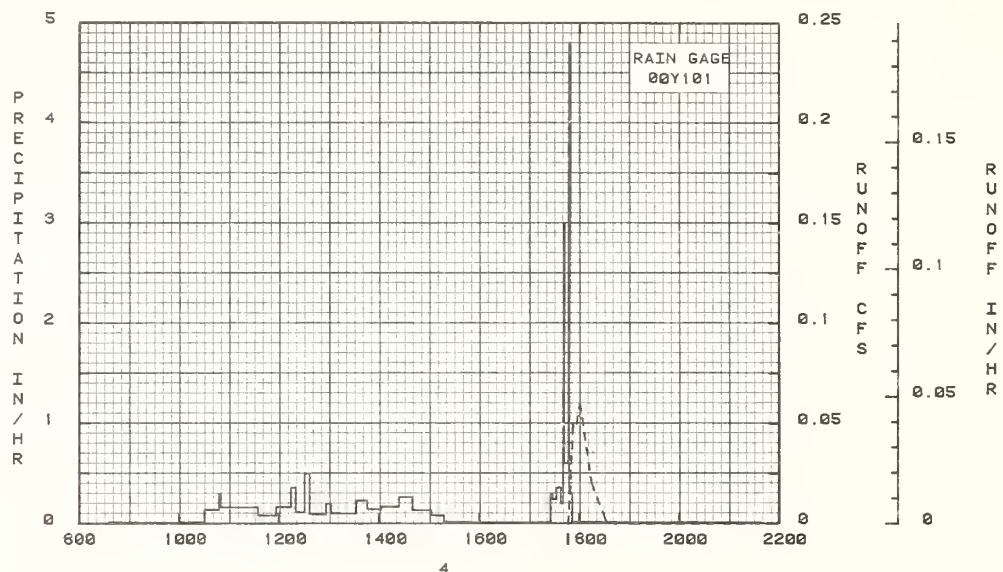


29  
EVENT OF MARCH 29, 1974  
COSHOCTON, OHIO WATERSHED 102

| 1974   |          |          | SELECTED HUNOFF EVENT |        |           |          | COSHOCTON, OHIO |        |       |          | WATERSHED 102 |  |
|--|----------|----------|-----------------------|--------|-----------|----------|-----------------|--------|-------|----------|---------------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL              |        |           |          | HUNOFF          |        |       |          |               |  |
| Date   | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.     | Date            | Time   | Rate  | Acc.     |               |  |
| Mo-Day   | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches) | Mo-Day          | of Day | (cfs) | (inches) |               |  |
| EVENT OF NOVEMBER 4, 1974  |          |          |                       |        |           |          |                 |        |       |          |               |  |
| HG 00Y101  |          |          | HG 00Y101             |        |           |          |                 |        |       |          |               |  |
| 11- 4  | 0.12     | 0.001    | 11- 4                 | 836    | 0.0       | 0.0      | 11- 4           | 1747   | 0.0   | 0.0      |               |  |
|  |          |          |                       | 1031   | 0.0157    | 0.03     |                 | 1753   | 0.045 | 0.0018   |               |  |
|  |          |          |                       | 1048   | 0.1412    | 0.07     |                 | 1757   | 0.050 | 0.0043   |               |  |
|  |          |          |                       | 1050   | 0.2998    | 0.08     |                 | 1801   | 0.063 | 0.0072   |               |  |
|  |          |          |                       | 1135   | 0.1600    | 0.20     |                 | 1815   | 0.025 | 0.0154   |               |  |
| WATERSHED CONDITIONS:<br>Pasture of orchardgrass,<br>timothy, and alfalfa. |          |          |                       | 1157   | 0.0819    | 0.23     |                 | 1834   | 0.001 | 0.0186   |               |  |
|  |          |          |                       | 1215   | 0.1666    | 0.28     |                 | 1913   | 0.0   | 0.0190   |               |  |
|  |          |          |                       | 1220   | 0.3600    | 0.31     |                 |        |       |          |               |  |
|  |          |          |                       | 1231   | 0.1091    | 0.33     |                 |        |       |          |               |  |
|  |          |          |                       | 1237   | 0.5000    | 0.38     |                 |        |       |          |               |  |
|  |          |          |                       | 1257   | 0.0900    | 0.41     |                 |        |       |          |               |  |
|  |          |          |                       | 1303   | 0.2000    | 0.43     |                 |        |       |          |               |  |
|  |          |          |                       | 1333   | 0.1000    | 0.48     |                 |        |       |          |               |  |
|  |          |          |                       | 1346   | 0.2307    | 0.53     |                 |        |       |          |               |  |
|  |          |          |                       | 1403   | 0.1412    | 0.57     |                 |        |       |          |               |  |
|  |          |          |                       | 1424   | 0.1714    | 0.63     |                 |        |       |          |               |  |
|  |          |          |                       | 1440   | 0.2625    | 0.70     |                 |        |       |          |               |  |
|  |          |          |                       | 1503   | 0.1304    | 0.75     |                 |        |       |          |               |  |
|  |          |          |                       | 1518   | 0.0800    | 0.77     |                 |        |       |          |               |  |
|  |          |          |                       | 1726   | 0.0141    | 0.80     |                 |        |       |          |               |  |
|  |          |          |                       | 1728   | 0.2998    | 0.81     |                 |        |       |          |               |  |
|  |          |          |                       | 1733   | 0.2401    | 0.83     |                 |        |       |          |               |  |
|  |          |          |                       | 1738   | 0.3600    | 0.86     |                 |        |       |          |               |  |
|  |          |          |                       | 1741   | 0.2002    | 0.87     |                 |        |       |          |               |  |
|  |          |          |                       | 1742   | 3.0007    | 0.92     |                 |        |       |          |               |  |
|  |          |          |                       | 1747   | 0.6000    | 0.97     |                 |        |       |          |               |  |
|  |          |          |                       | 1748   | 4.8011    | 1.05     |                 |        |       |          |               |  |
|  |          |          |                       | 1752   | 0.3001    | 1.07     |                 |        |       |          |               |  |
|  |          |          |                       | 2023   | 0.0159    | 1.11     |                 |        |       |          |               |  |
|  |          |          |                       | 2138   | 0.0080    | 1.12     |                 |        |       |          |               |  |

WATERSHED CONDITIONS:  
Pasture of orchardgrass,  
timothy, and alfalfa.

NOTES: To convert runoff in CPS to IN/HH, multiply by 0.78772000.



EVENT OF NOVEMBER 4, 1974  
COSHOCTON, OHIO WATERSHED 102

COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnsccarawas River, Hnskingnm River Basin. Lat. 40 deg. 22 min. 23 sec. N.; Long. 81 deg. 47 min. 20 sec. W.

AREA: 1.37 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | COSHOCTON, OHIO WATERSHED 123             |       |         |       |          |       |        |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |       |
| 1974  | P | 3.16              | 1.98  | 4.90   | 3.46  | 4.40    | 2.63  | 2.98                                      | 7.37  | 3.48    | 1.33  | 3.47     | 4.55  | 43.71  |       |        |       |        |       |
|   | Q | 0.0               | 0.0   | 1.794  | 0.0   | 0.0     | 0.0   | 0.0                                       | 1.743 | 0.0     | 0.0   | 0.0      | 1.929 | 5.466  |       |        |       |        |       |
| STA AV  | P | 2.68              | 2.39  | 3.49   | 3.53  | 3.83    | 4.08  | 4.33                                      | 2.93  | 2.63    | 2.25  | 2.69     | 2.50  | 37.33  |       |        |       |        |       |
|   | Q | 0.343             | 0.365 | 0.447  | 0.260 | 0.133   | 0.247 | 0.195                                     | 0.114 | 0.042   | 0.017 | 0.062    | 0.161 | 2.387  |       |        |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4- 3              | 1.831 | 4- 3   | 0.683 | 4- 3    | 0.742 | 4- 3                                      | 0.777 | 4- 3    | 0.812 | 4- 3     | 0.815 | 4- 3   | 0.815 | 4- 1   | 1.019 | 5- 4   | 1.993 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |       |
|   |   | 6-12              | 5.970 | 6-12   | 1.370 | 6-12    | 1.480 | 7- 5                                      | 2.054 | 7- 5    | 2.131 | 1-21     | 2.330 | 1-21   | 2.330 | 3- 4   | 2.660 |        |       |
|   |   | 1957              |       | 1957   |       | 1957    |       | 1969                                      |       | 1969    |       | 1959     |       | 1959   |       | 1964   |       |        |       |

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974 DAILY AIR TEMPERATURE (degrees F) |         |         |         |         |         |         |         |         |         |         |         |         | COSHOCTON, OHIO WATERSHED 123 |  |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------------------|--|
| Day                                    | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |                               |  |
|  | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min |                               |  |
| 1                                      | 26 10   | 36 22   | 43 31   | 63 36   | 64 46   | 69 55   | 83 59   | 81 59   | 68 58   | 54 36   | 68 60   | 34 32   |                               |  |
| 2                                      | 22 6    | 30 23   | 64 36   | 64 45   | 63 42   | 73 52   | 84 62   | 83 62   | 68 53   | 44 31   | 72 58   | 31 30   |                               |  |
| 3                                      | 25 22   | 30 19   | 74 54   | 71 47   | 61 48   | 77 55   | 87 68   | 77 64   | 60 51   | 48 32   | 68 50   | 28 23   |                               |  |
| 4                                      | 28 12   | 22 8    | 68 60   | 73 44   | 56 38   | 80 50   | 86 66   | 72 57   | 64 47   | 55 29   | 61 54   | 27 17   |                               |  |
| 5                                      | 26 12   | 21 5    | 68 32   | 44 30   | 62 39   | 79 60   | 84 61   | 73 52   | 67 48   | 71 40   | 56 42   | 27 13   |                               |  |
| 6                                      | 26 20   | 39 20   | 61 36   | 44 28   | 46 34   | 78 63   | 82 56   | 75 52   | 64 50   | 74 48   | 47 36   | 33 18   |                               |  |
| 7                                      | 25 8    | 35 17   | 72 50   | 60 34   | 53 32   | 81 64   | 85 63   | 81 59   | 70 57   | 53 38   | 50 36   | 40 27   |                               |  |
| 8                                      | 25 2    | 24 11   | 75 45   | 43 28   | 57 39   | 79 65   | 87 66   | 78 60   | 76 51   | 55 34   | 54 30   | 42 27   |                               |  |
| 9                                      | 36 25   | 23 11   | 73 50   | 38 27   | 54 44   | 84 63   | 86 67   | 79 60   | 75 60   | 64 37   | 59 35   | 25 17   |                               |  |
| 10                                     | 30 25   | 28 10   | 58 29   | 55 36   | 59 42   | 80 61   | 86 70   | 77 58   | 74 62   | 67 44   | 52 33   | 33 13   |                               |  |
| 11                                     | 30 21   | 23 18   | 41 28   | 64 38   | 77 42   | 71 53   | 77 58   | 70 60   | 78 63   | 71 46   | 58 47   | 40 25   |                               |  |
| 12                                     | 21 8    | 48 20   | 42 23   | 68 54   | 64 47   | 69 52   | 78 52   | 80 68   | 78 66   | 71 53   | 57 35   | 39 36   |                               |  |
| 13                                     | 28 5    | 56 30   | 33 16   | 73 56   | 64 46   | 73 47   | 86 58   | 84 63   | 77 57   | 67 52   | 43 30   | 36 34   |                               |  |
| 14                                     | 38 20   | 30 18   | 44 17   | 76 42   | 83 49   | 77 54   | 88 64   | 79 61   | 63 50   | 71 57   | 47 24   | 34 32   |                               |  |
| 15                                     | 46 32   | 33 13   | 48 27   | 43 39   | 72 56   | 75 58   | 82 62   | 80 57   | 67 46   | 56 44   | 32 24   | 39 30   |                               |  |
| 16                                     | 50 31   | 44 22   | 48 28   | 57 39   | 81 53   | 70 51   | 76 58   | 82 60   | 70 49   | 58 43   | 45 25   | 40 32   |                               |  |
| 17                                     | 41 33   | 36 17   | 40 28   | 62 38   | 83 63   | 64 48   | 82 56   | 79 66   | 73 54   | 67 38   | 50 33   | 42 26   |                               |  |
| 18                                     | 58 34   | 44 18   | 43 18   | 64 41   | 72 54   | 73 48   | 85 64   | 75 61   | 71 58   | 47 32   | 53 34   | 27 22   |                               |  |
| 19                                     | 58 36   | 49 18   | 45 32   | 56 38   | 73 55   | 75 55   | 87 68   | 80 57   | 74 54   | 36 29   | 57 38   | 36 25   |                               |  |
| 20                                     | 63 37   | 45 30   | 48 24   | 70 34   | 79 48   | 84 63   | 77 58   | 83 61   | 70 56   | 38 29   | 57 36   | 34 19   |                               |  |
| 21                                     | 56 39   | 57 27   | 37 25   | 76 51   | 82 60   | 76 64   | 79 52   | 81 62   | 60 48   | 47 28   | 37 32   | 34 23   |                               |  |
| 22                                     | 53 38   | 55 27   | 44 20   | 61 52   | 71 57   | 71 54   | 81 58   | 82 61   | 50 40   | 62 31   | 44 32   | 36 27   |                               |  |
| 23                                     | 52 30   | 30 20   | 49 22   | 52 37   | 76 57   | 66 50   | 68 63   | 81 61   | 53 36   | 61 43   | 61 30   | 49 32   |                               |  |
| 24                                     | 34 26   | 31 18   | 23 9    | 49 36   | 69 55   | 70 51   | 76 59   | 81 64   | 62 36   | 63 46   | 58 41   | 43 37   |                               |  |
| 25                                     | 43 24   | 18 8    | 33 3    | 58 32   | 58 47   | 70 51   | 80 58   | 83 61   | 67 47   | 65 46   | 41 28   | 37 25   |                               |  |
| 26                                     | 61 30   | 28 8    | 49 23   | 71 46   | 63 49   | 67 54   | 83 63   | 83 62   | 71 48   | 59 40   | 30 17   | 27 22   |                               |  |
| 27                                     | 57 40   | 51 9    | 52 28   | 77 50   | 64 45   | 73 52   | 86 66   | 86 68   | 72 49   | 65 37   | 41 21   | 33 24   |                               |  |
| 28                                     | 50 34   | 46 40   | 58 33   | 81 62   | 70 45   | 69 60   | 88 63   | 73 60   | 74 63   | 69 44   | 41 26   | 34 30   |                               |  |
| 29                                     | 42 34   |         | 52 38   | 79 63   | 72 59   | 73 55   | 83 60   | 73 60   | 67 46   | 70 50   | 39 26   | 41 34   |                               |  |
| 30                                     | 52 31   |         | 51 35   | 65 53   | 76 63   | 78 61   | 78 57   | 75 64   | 57 40   | 68 57   | 39 28   | 43 29   |                               |  |
| 31                                     | 54 26   |         | 41 32   |         | 73 65   |         | 79 57   | 78 65   |         | 75 57   |         | 36 29   |                               |  |
| AV.                                    | 41 24   | 36 18   | 51 30   | 62 42   | 68 49   | 74 56   | 82 61   | 79 61   | 68 51   | 60 41   | 51 35   | 35 26   |                               |  |
| MEAN                                   | 32.4    | 27.2    | 40.5    | 51.9    | 58.4    | 64.9    | 71.7    | 69.9    | 59.8    | 50.7    | 42.7    | 30.9    |                               |  |
| STA AV                                 | 38 21   | 35 19   | 52 33   | 59 41   | 69 50   | 76 58   | 81 62   | 79 62   | 73 54   | 61 43   | 49 34   | 39 26   |                               |  |

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 36 yr (1939-74) record period.



| 1974 DAILY PRECIPITATION (inches) COSROCTON, OHIO WATERSHED 123 |        |        |        |       |       |       |       |       |       |       |       |        |
|---|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Day   | Jan    | Feb    | Mar    | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec    |
| 1   | 0.0    | 0.0    | 0.0    | 0.65  | 0.0   | 0.0   | 0.0   | 0.0   | 0.77  | 0.0   | 0.0 T | 1.39S  |
| 2   | 0.0    | 0.0    | 0.24   | 0.04  | 0.22  | 0.0   | 0.0   | 0.32  | 0.03  | 0.0   | 0.10E | 0.91S  |
| 3   | 0.02E  | 0.0 T  | 0.0    | 1.34  | 0.0 T | 0.0   | 0.0   | 0.22  | 0.64  | 0.0   | 0.0   | 0.0 T  |
| 4   | 0.0    | 0.02S  | 0.03E  | 0.01  | 0.0   | 0.0   | 0.49  | 0.38  | 0.0   | 0.0   | 1.34  | 0.0    |
| 5   | 0.0    | 0.0 T  | 0.29   | 0.0   | 0.04E | 0.0   | 0.28  | 0.0   | 0.0   | 0.0   | 0.06  | 0.0    |
| 6   | 0.0    | 0.84S  | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.15  | 0.0    |
| 7   | 0.01S  | 0.01S  | 0.24   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.04E | 0.0   | 0.27   |
| 8   | 0.13HZ | 0.0    | 0.0    | 0.33H | 0.15  | 0.0 T | 0.0   | 0.10  | 0.0   | 0.0   | 0.0   | 0.02   |
| 9   | 0.13HZ | 0.0    | 0.55   | 0.02E | 0.22  | 0.0   | 0.09  | 0.21  | 0.0   | 0.0   | 0.0   | 0.0 T  |
| 10  | 0.13HZ | 0.03SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 11  | 0.13HZ | 0.04SZ | 0.23   | 0.0   | 0.51  | 0.06E | 0.0   | 0.11  | 0.0   | 0.0   | 0.50  | 0.0    |
| 12  | 0.13HZ | 0.0    | 0.0    | 0.0   | 1.07  | 0.0   | 0.0   | 0.16  | 0.03E | 0.0   | 0.32  | 0.07 Z |
| 13  | 0.13HZ | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.04  | 0.45  | 0.0   | 0.02H | 0.08 Z |
| 14  | 0.0    | 0.0    | 0.0    | 0.26  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.38E | 0.01H | 0.0    |
| 15  | 0.0    | 0.0    | 0.51   | 0.0   | 0.10  | 1.00  | 0.01E | 0.0   | 0.0   | 0.51  | 0.0 T | 0.23H  |
| 16  | 0.0    | 0.0    | 0.13H  | 0.0   | 0.0   | 0.13  | 0.0   | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 T  |
| 17  | 0.0    | 0.0    | 0.0    | 0.0   | 0.33  | 0.0   | 0.0   | 0.63E | 0.0   | 0.0   | 0.0   | 0.03S  |
| 18  | 0.52   | 0.0    | 0.04   | 0.0   | 0.03E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   | 0.0 T  |
| 19  | 0.80   | 0.29   | 0.08   | 0.0   | 0.0   | 0.09  | 0.0   | 0.0   | 0.0   | 0.04H | 0.03E | 0.12S  |
| 20  | 0.12   | 0.0    | 0.0    | 0.0   | 0.0   | 0.07  | 0.0   | 0.0   | 0.70  | 0.0 T | 0.18  | 0.0    |
| 21  | 0.05   | 0.18   | 0.48H  | 0.0   | 0.0   | 0.40  | 0.0   | 0.0   | 0.56  | 0.0   | 0.10S | 0.06S  |
| 22  | 0.0    | 0.31   | 0.0    | 0.22E | 0.53  | 0.82  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 23  | 0.52   | 0.0    | 0.18SZ | 0.02H | 0.31  | 0.02E | 0.38  | 0.0   | 0.0   | 0.11  | 0.0   | 0.21   |
| 24  | 0.0    | 0.06SZ | 0.18SZ | 0.0   | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.29  | 0.47   |
| 25  | 0.0    | 0.06SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  | 0.33H | 0.14   |
| 26  | 0.20   | 0.0    | 0.0    | 0.0   | 0.0   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 27  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.81  | 0.08E | 0.0   | 0.01E | 0.02E  |
| 28  | 0.14   | 0.14   | 0.07E  | 0.0   | 0.08  | 0.0   | 0.0 T | 2.16  | 0.05  | 0.0   | 0.0   | 0.0    |
| 29  | 0.0    |        | 1.44   | 0.0   | 0.48E | 0.0   | 1.73  | 1.24E | 0.15  | 0.0   | 0.0   | 0.0    |
| 30  | 0.0    |        | 0.21   | 0.57E | 0.0   | 0.03E | 0.0   | 0.25  | 0.0   | 0.06  | 0.03H | 0.0    |
| 31  | 0.0    |        | 0.0    |       | 0.04E |       | 0.0   | 0.74  |       | 0.0   |       | 0.53H  |
| TOTAL   | 3.16   | 1.98   | 4.90   | 3.46  | 4.40  | 2.63  | 2.98  | 7.37  | 3.48  | 1.33  | 3.47  | 4.55   |
| STA AV  | 2.68   | 2.39   | 3.49   | 3.53  | 3.83  | 4.08  | 4.33  | 2.93  | 2.63  | 2.25  | 2.69  | 2.50   |

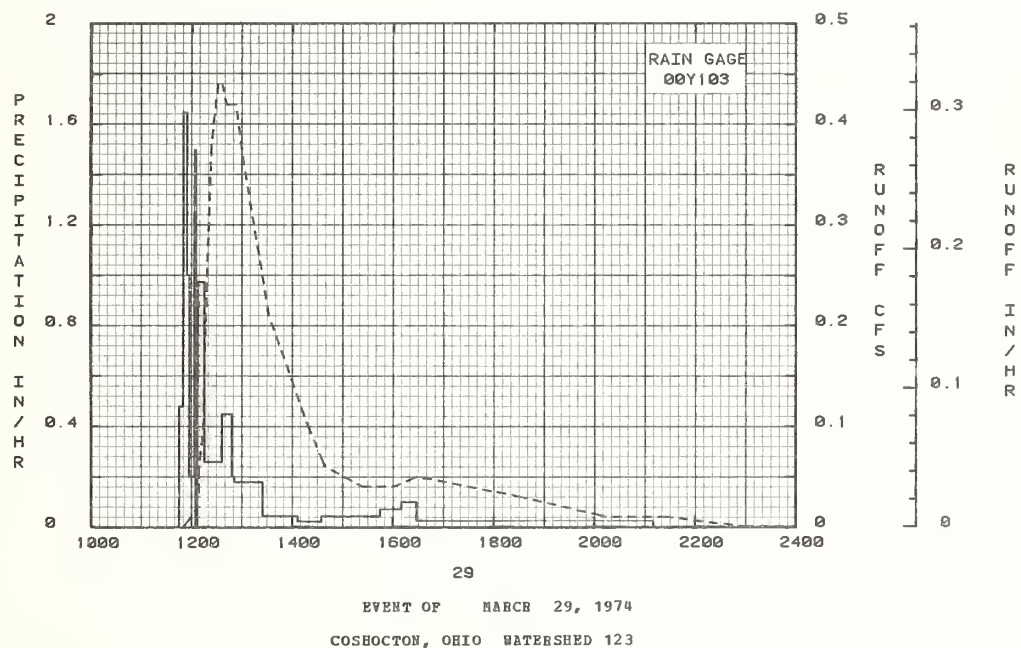
NOTES: Precipitation amounts are for rain gage Y103. STA AV based on 36 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

| 1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, OHIO WATERSHED 123 |       |       |        |       |       |       |       |        |       |       |       |        |
|---|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|--------|
| Day   | Jan   | Feb   | Mar    | Apr   | May   | Jun   | Jul   | Aug    | Sep   | Oct   | Nov   | Dec    |
| 1   | 0.0   | 0.0   | 0.0    | 0.008 | 0.0   | 0.0   | 0.0   | 0.0    | 0.014 | 0.0   | 0.0   | 0.0    |
| 2   | 0.0   | 0.0   | 0.0 T  | 0.005 | 0.0 T | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 3   | 0.0   | 0.0   | 0.0    | 0.047 | 0.0   | 0.0   | 0.0   | 0.0    | 0.003 | 0.0   | 0.0   | 0.0    |
| 4   | 0.0   | 0.0   | 0.0    | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0    | 0.0   | 0.0   | 0.030 | 0.0    |
| 5   | 0.0   | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 6   | 0.0   | 0.0 T | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0 T  |
| 8   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.020  |
| 9   | 0.0   | 0.0   | 0.003  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 10  | 0.0   | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 11  | 0.0   | 0.0   | 0.001  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0 T | 0.0    |
| 12  | 0.0   | 0.0   | 0.0 T  | 0.0   | 0.021 | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.013 | 0.0    |
| 13  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0 T | 0.0   | 0.0   | 0.0    |
| 14  | 0.0   | 0.0   | 0.0    | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 15  | 0.008 | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 16  | 0.007 | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.002  |
| 17  | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 18  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 19  | 0.008 | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 20  | 0.031 | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0 T | 0.0   | 0.0   | 0.0    |
| 21  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 22  | 0.0   | 0.002 | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 23  | 0.0   | 0.0   | 0.0    | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  |
| 24  | 0.007 | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.020  |
| 25  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.001 | 0.002  |
| 26  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    |
| 27  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0    |
| 28  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.002  | 0.0   | 0.0   | 0.0   | 0.0    |
| 29  | 0.0   |       | 0.035  | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.015  | 0.0   | 0.0   | 0.0   | 0.0    |
| 30  | 0.0   |       | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0    |
| 31  | 0.0   |       | 0.0    |       | 0.0   |       | 0.0   | 0.002  |       | 0.0   |       | 0.005  |
| MEAN  | 0.0   | 0.0   | 0.0033 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0032 | 0.0   | 0.0   | 0.0   | 0.0036 |
| INCHES  | 0.0   | 0.0   | 1.794  | 0.0   | 0.0   | 0.0   | 0.0   | 1.743  | 0.0   | 0.0   | 0.0   | 1.929  |
| STA AV  | 0.343 | 0.365 | 0.447  | 0.260 | 0.133 | 0.247 | 0.195 | 0.114  | 0.042 | 0.017 | 0.062 | 0.161  |

NOTES: To convert CPS to IN/DAY, multiply by 17.3735. STA AV based on 36 yr period.

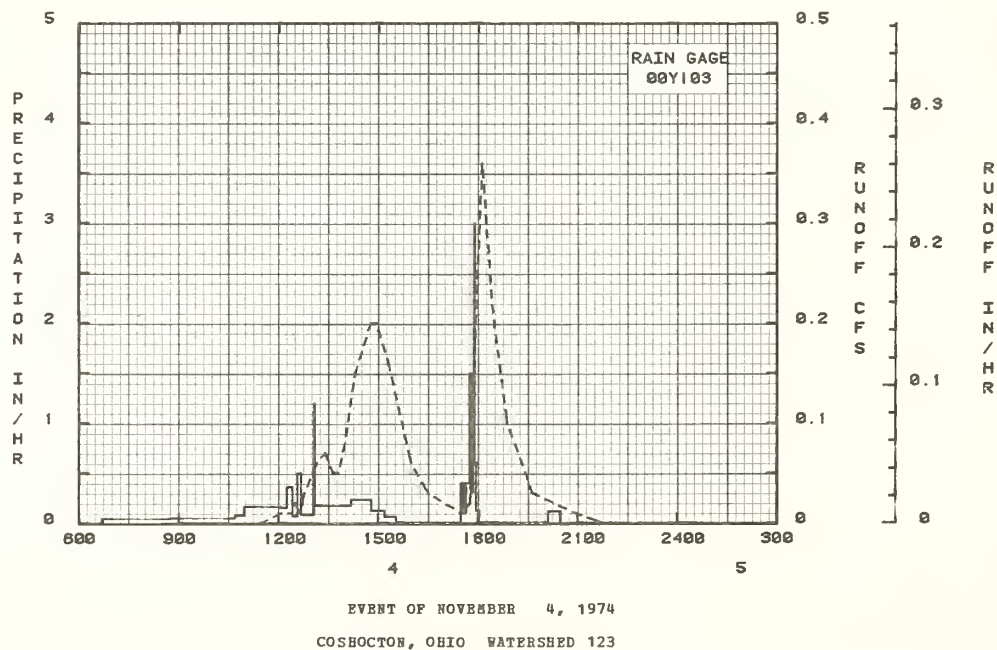
| 1974 SELECTED RUNOFF EVENT                                    |                   |          | COSHOCTON, OHIO WATERSHED 123 |        |           |          |        |        |       |          |
|---|-------------------|----------|-------------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS   |                   |          | RAINFALL                      |        |           | RUNOFF   |        |        |       |          |
| Date  | Rainfall          | Runoff   | Date                          | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day  | (inches)          | (inches) | Mo-Day                        | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MARCH 29, 1974                                       |                   |          |                               |        |           |          |        |        |       |          |
| 3-29  | RG 00Y103<br>0.49 | 0.009    | 3-29                          | 1145   | 0.0       | 0.0      | 3-29   | 1150   | 0.0   | 0.0      |
|   |                   |          |                               | 1150   | 0.4800    | 0.04     |        | 1159   | 0.006 | 0.0003   |
|   |                   |          |                               | 1154   | 1.6500    | 0.15     |        | 1207   | 0.020 | 0.0016   |
|   |                   |          |                               | 1157   | 1.0000    | 0.20     |        | 1209   | 0.060 | 0.0025   |
|   |                   |          |                               | 1200   | 0.2000    | 0.21     |        | 1214   | 0.099 | 0.0073   |
| WATERSHED CONDITIONS:<br>Last year's standing<br>corn stalks. |                   |          |                               | 1203   | 0.2000    | 0.22     |        | 1215   | 0.160 | 0.0089   |
|   |                   |          |                               | 1205   | 1.5000    | 0.27     |        | 1223   | 0.381 | 0.0350   |
|   |                   |          |                               | 1207   | 0.0       | 0.27     |        | 1231   | 0.438 | 0.0745   |
|   |                   |          |                               | 1215   | 0.9750    | 0.40     |        | 1236   | 0.438 | 0.1010   |
|   |                   |          |                               | 1236   | 0.2571    | 0.49     |        | 1241   | 0.419 | 0.1268   |
|   |                   |          |                               | 1248   | 0.4500    | 0.58     |        | 1252   | 0.419 | 0.1824   |
|   |                   |          |                               | 1251   | 0.2000    | 0.59     |        | 1302   | 0.363 | 0.2296   |
|   |                   |          |                               | 1325   | 0.1765    | 0.69     |        | 1332   | 0.209 | 0.3331   |
|   |                   |          |                               | 1407   | 0.0429    | 0.72     |        | 1419   | 0.099 | 0.4204   |
|   |                   |          |                               | 1435   | 0.0214    | 0.73     |        | 1439   | 0.060 | 0.4396   |
|   |                   |          |                               | 1545   | 0.0429    | 0.78     |        | 1524   | 0.041 | 0.4670   |
|   |                   |          |                               | 1610   | 0.0720    | 0.81     |        | 1600   | 0.041 | 0.4848   |
|   |                   |          |                               | 1628   | 0.1000    | 0.84     |        | 1628   | 0.053 | 0.5007   |
|   |                   |          |                               | 2110   | 0.0234    | 0.95     |        | 1730   | 0.041 | 0.5359   |
|   |                   |          |                               |        |           |          |        | 1830   | 0.030 | 0.5616   |
|   |                   |          |                               |        |           |          |        | 2014   | 0.012 | 0.5879   |
|   |                   |          |                               |        |           |          |        | 2124   | 0.006 | 0.5955   |
|   |                   |          |                               |        |           |          |        | 2300   | 0.002 | 0.6002   |
|   |                   |          |                               |        |           |          |        | 2400   | 0.0   | 0.6009   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.72389000.



| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | COSHOCTON, OHIO |        |        | WATERSHED 123 |          |  |
|--|----------|----------|-----------------------|--------|-----------|-----------------|--------|--------|---------------|----------|--|
| ANTECEDENT CONDITIONS                          |          |          | RAINFALL              |        |           | RUNOFF          |        |        |               |          |  |
| Date   | Rainfall | Rnoff    | Date                  | Time   | Intensity | Acc.            | Date   | Time   | Rate          | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)        | Mo-Day | of Day | (cfs)         | (inches) |  |
| EVENT OF NOVEMBER 4, 1974                      |          |          |                       |        |           |                 |        |        |               |          |  |
| HG 00Y103                                      |          |          | HG 00Y103             |        |           |                 |        |        |               |          |  |
| 11- 4  | 0.0      | 0.0      | 11- 4                 | 642    | 0.0       | 0.0             | 11- 4  | 1123   | 0.0           | 0.0      |  |
|  |          |          |                       | 845    | 0.0439    | 0.09            |        | 1128   | 0.002         | 0.0001   |  |
|  |          |          |                       | 1042   | 0.0513    | 0.19            |        | 1206   | 0.006         | 0.0019   |  |
|  |          |          |                       | 1058   | 0.0750    | 0.21            |        | 1219   | 0.006         | 0.0028   |  |
|  |          |          |                       | 1204   | 0.1636    | 0.39            |        | 1222   | 0.012         | 0.0032   |  |
| WATERSHED CONDITIONS:<br>Standing corn stalks. |          |          |                       | 1216   | 0.1500    | 0.42            |        | 1229   | 0.016         | 0.0043   |  |
|  |          |          |                       | 1226   | 0.3600    | 0.48            |        | 1239   | 0.012         | 0.0060   |  |
|  |          |          |                       | 1235   | 0.0667    | 0.49            |        | 1247   | 0.030         | 0.0081   |  |
|  |          |          |                       | 1241   | 0.4999    | 0.54            |        | 1310   | 0.060         | 0.0205   |  |
|  |          |          |                       | 1304   | 0.0783    | 0.57            |        | 1324   | 0.067         | 0.0313   |  |
|  |          |          |                       | 1305   | 1.1993    | 0.59            |        | 1338   | 0.053         | 0.0414   |  |
|  |          |          |                       | 1411   | 0.1727    | 0.78            |        | 1348   | 0.053         | 0.0478   |  |
|  |          |          |                       | 1447   | 0.2333    | 0.92            |        | 1400   | 0.082         | 0.0576   |  |
|  |          |          |                       | 1512   | 0.1200    | 0.97            |        | 1418   | 0.149         | 0.0826   |  |
|  |          |          |                       | 1532   | 0.0600    | 0.99            |        | 1446   | 0.196         | 0.1409   |  |
|  |          |          |                       | 1730   | 0.0051    | 1.00            |        | 1456   | 0.196         | 0.1646   |  |
|  |          |          |                       | 1733   | 0.4001    | 1.02            |        | 1518   | 0.160         | 0.2118   |  |
|  |          |          |                       | 1739   | 0.0999    | 1.03            |        | 1559   | 0.060         | 0.2662   |  |
|  |          |          |                       | 1745   | 0.4001    | 1.07            |        | 1630   | 0.030         | 0.2831   |  |
|  |          |          |                       | 1747   | 1.4996    | 1.12            |        | 1729   | 0.006         | 0.2959   |  |
|  |          |          |                       | 1749   | 0.6001    | 1.14            |        | 1733   | 0.006         | 0.2962   |  |
|  |          |          |                       | 1751   | 0.2998    | 1.15            |        | 1746   | 0.020         | 0.2982   |  |
|  |          |          |                       | 1753   | 1.5001    | 1.20            |        | 1754   | 0.172         | 0.3075   |  |
|  |          |          |                       | 1754   | 3.0002    | 1.25            |        | 1807   | 0.363         | 0.3494   |  |
|  |          |          |                       | 1757   | 0.6000    | 1.28            |        | 1827   | 0.209         | 0.4184   |  |
|  |          |          |                       | 1802   | 0.1199    | 1.29            |        | 1853   | 0.099         | 0.4667   |  |
|  |          |          |                       | 2007   | 0.0048    | 1.30            |        | 1938   | 0.030         | 0.5018   |  |
|  |          |          |                       | 2028   | 0.1143    | 1.34            |        | 2054   | 0.006         | 0.5183   |  |
|  |          |          |                       |        |           |                 |        | 2144   | 0.002         | 0.5207   |  |
|  |          |          |                       |        |           |                 |        | 2157   | 0.0           | 0.5208   |  |
|  |          |          |                       |        |           |                 |        | 2400   | 0.0           | 0.5208   |  |

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.72389000.



COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. N.; Long. 81 deg. 47 min. 39 sec. W.

AREA: 1.69 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |       |       |       |       |       |       |       |       |       |       |       |       |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COSHOCTON, OHIO WATERSHED 109   |   |       |       |       |       |       |       |       |       |       |       |       |       |
|   |   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1974  | P | 2.95  | 1.92  | 4.60  | 3.41  | 4.32  | 2.66  | 2.37  | 7.05  | 3.29  | 1.28  | 3.41  | 4.30  |
|   | Q | 0.011 | 0.0   | 0.001 | 0.131 | 0.0   | 0.005 | 0.001 | 0.165 | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV  | P | 2.58  | 2.25  | 3.41  | 3.46  | 3.83  | 4.07  | 4.34  | 2.87  | 2.65  | 2.20  | 2.61  | 2.38  |
|   | Q | 0.063 | 0.174 | 0.113 | 0.047 | 0.088 | 0.246 | 0.275 | 0.147 | 0.042 | 0.010 | 0.001 | 0.016 |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |       |       |       |       |       |       |       |       |       |       |       |       |
| Maximum Discharge Date Date   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| 1 Hour 2 Hours 6 Hours 12 Hours 1 Day 2 Days 8 Days   |   |       |       |       |       |       |       |       |       |       |       |       |       |
| Date Vol. Date Vol. Date Vol. Date Vol. Date Vol. Date Vol. Date Vol.                               |   |       |       |       |       |       |       |       |       |       |       |       |       |
| 1974  |   | 8-28  | 0.472 | 4-3   | 0.125 | 4-3   | 0.131 | 4-3   | 0.131 | 4-2   | 0.131 | 8-27  | 0.165 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |       |       |       |       |       |       |       |       |       |       |       |       |
|   |   | 5-17  | 4.340 | 6-29  | 0.820 | 6-28  | 1.090 | 7-5   | 1.416 | 3-4   | 1.920 | 3-4   | 2.550 |
|   |   | 1941  |       | 1941  |       | 1940  |       | 1969  |       | 1963  |       | 1963  |       |

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974 DAILY PRECIPITATION (inches) |       |        |        |       |       |       |       |       |       |       |       |        |  |
|-----------------------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| COSHOCTON, OHIO WATERSHED 109     |       |        |        |       |       |       |       |       |       |       |       |        |  |
| Day                               | Jan   | Feb    | Mar    | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec    |  |
| 1                                 | 0.0   | 0.0    | 0.0    | 0.64  | 0.0   | 0.0   | 0.0   | 0.0   | 0.73  | 0.0   | 0.0 T | 1.38S  |  |
| 2                                 | 0.0   | 0.0    | 0.23   | 0.03  | 0.21E | 0.0   | 0.0   | 0.36  | 0.03  | 0.0   | 0.09E | 0.90S  |  |
| 3                                 | 0.02E | 0.0 T  | 0.0    | 1.37  | 0.0 T | 0.0   | 0.0   | 0.20  | 0.56  | 0.0   | 0.0   | 0.0 T  |  |
| 4                                 | 0.0   | 0.02S  | 0.04E  | 0.01E | 0.0   | 0.0   | 0.15  | 0.39  | 0.0   | 0.0   | 1.28  | 0.0    |  |
| 5                                 | 0.0   | 0.0 T  | 0.30   | 0.0   | 0.03E | 0.0   | 0.27  | 0.0   | 0.0   | 0.0   | 0.08  | 0.0    |  |
| 6                                 | 0.0   | 0.83S  | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.15  | 0.0    |  |
| 7                                 | 0.01S | 0.0    | 0.25   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.03E | 0.0   | 0.24   |  |
| 8                                 | 0.11E | 0.0    | 0.0    | 0.20E | 0.19  | 0.0 T | 0.0   | 0.10  | 0.0   | 0.0   | 0.0   | 0.02   |  |
| 9                                 | 0.10E | 0.0    | 0.58   | 0.02E | 0.24  | 0.0   | 0.07  | 0.17  | 0.0   | 0.0   | 0.0   | 0.0 T  |  |
| 10                                | 0.11E | 0.03SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 11                                | 0.11E | 0.04SZ | 0.16   | 0.0   | 0.50  | 0.06E | 0.0   | 0.07E | 0.0   | 0.0   | 0.45E | 0.0    |  |
| 12                                | 0.10E | 0.0    | 0.0    | 0.0   | 0.99  | 0.0   | 0.0   | 0.18  | 0.03E | 0.0   | 0.38  | 0.07SZ |  |
| 13                                | 0.11E | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.03  | 0.46  | 0.0   | 0.02E | 0.07SZ |  |
| 14                                | 0.0   | 0.0    | 0.0    | 0.26  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.38E | 0.01E | 0.0    |  |
| 15                                | 0.0   | 0.0    | 0.50   | 0.0   | 0.10  | 0.97  | 0.01E | 0.0   | 0.0   | 0.50  | 0.0 T | 0.15E  |  |
| 16                                | 0.0   | 0.0    | 0.16E  | 0.0   | 0.0   | 0.20  | 0.0   | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 T  |  |
| 17                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.33  | 0.0   | 0.0   | 0.68E | 0.0   | 0.0   | 0.0   | 0.04S  |  |
| 18                                | 0.55  | 0.0    | 0.02   | 0.0   | 0.02E | 0.0   | 0.0   | 0.0   | 0.03E | 0.0   | 0.0   | 0.0 T  |  |
| 19                                | 0.75  | 0.28   | 0.10   | 0.0   | 0.0   | 0.08  | 0.0   | 0.0   | 0.0   | 0.04E | 0.04E | 0.07S  |  |
| 20                                | 0.09  | 0.0    | 0.0    | 0.0   | 0.0   | 0.11  | 0.0   | 0.0   | 0.69  | 0.0 T | 0.19  | 0.0    |  |
| 21                                | 0.09  | 0.17   | 0.44E  | 0.0   | 0.0   | 0.43  | 0.0   | 0.0   | 0.46E | 0.0   | 0.10S | 0.05S  |  |
| 22                                | 0.0   | 0.32   | 0.0    | 0.24E | 0.53  | 0.77  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 23                                | 0.51  | 0.0    | 0.10SZ | 0.02E | 0.29  | 0.0 T | 0.37  | 0.0   | 0.0   | 0.10  | 0.0   | 0.24   |  |
| 24                                | 0.0   | 0.04SZ | 0.10SZ | 0.0   | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.30  | 0.41   |  |
| 25                                | 0.0   | 0.04SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.09  | 0.29E | 0.11   |  |
| 26                                | 0.15  | 0.0    | 0.0    | 0.0   | 0.0   | 0.07E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 27                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.73  | 0.11E | 0.0   | 0.02E | 0.02E  |  |
| 28                                | 0.14E | 0.15E  | 0.05E  | 0.0   | 0.06  | 0.0   | 0.0 T | 2.05  | 0.05  | 0.0   | 0.0   | 0.0    |  |
| 29                                | 0.0   |        | 1.36   | 0.0   | 0.49E | 0.0   | 1.50E | 1.16E | 0.14  | 0.0   | 0.0   | 0.0    |  |
| 30                                | 0.0   |        | 0.21   | 0.62E | 0.0   | 0.03E | 0.0   | 0.24  | 0.0   | 0.05  | 0.01E | 0.0    |  |
| 31                                | 0.0   |        | 0.0    |       | 0.05E |       | 0.0   | 0.69  |       | 0.0   |       | 0.53E  |  |
| TOTAL                             | 2.95  | 1.92   | 4.60   | 3.41  | 4.32  | 2.66  | 2.37  | 7.05  | 3.29  | 1.28  | 3.41  | 4.30   |  |
| STA AV                            | 2.58  | 2.25   | 3.41   | 3.46  | 3.83  | 4.07  | 4.34  | 2.87  | 2.65  | 2.20  | 2.61  | 2.38   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y102. STA AV based on 36 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been divided equally among coded days.

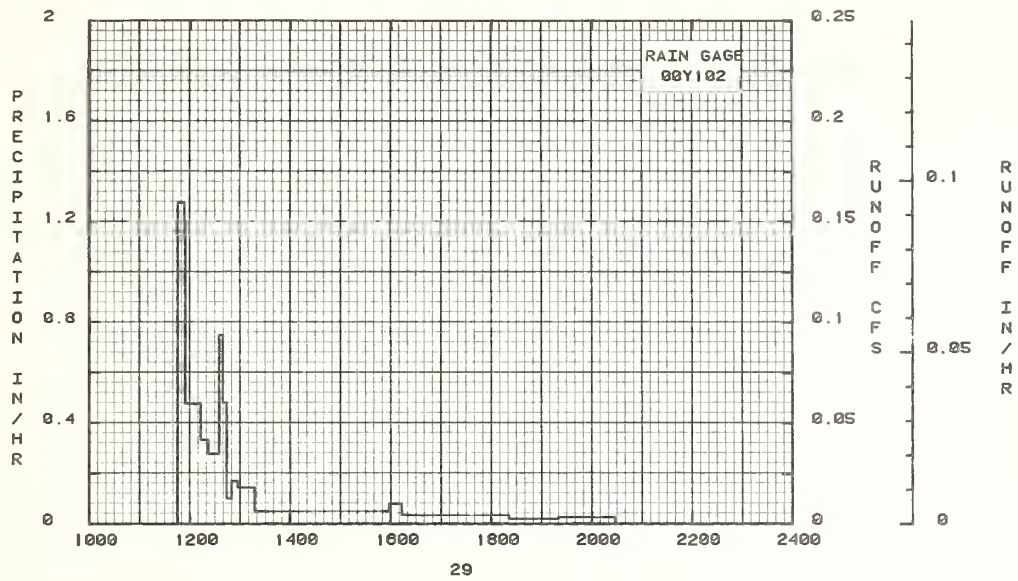


| 1974 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 109 |       |       |       |        |       |       |       |        |       |       |       |       |
|---|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr    | May   | Jun   | Jul   | Aug    | Sep   | Oct   | Nov   | Dec   |
| 1   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 2   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 3   | 0.0   | 0.0   | 0.0   | 0.009  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 4   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 5   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 6   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 7   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 8   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 9   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 11  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 12  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 13  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 14  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 15  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 16  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 17  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 18  | 0.0   | T     | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 19  | 0.001 | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 20  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 21  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | T     | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 22  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 23  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 24  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 25  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 26  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 27  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 28  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.009  | 0.0   | 0.0   | 0.0   | 0.0   |
| 29  | 0.0   |       |       | T      | 0.0   | 0.0   | 0.0   | T      | 0.003 | 0.0   | 0.0   | 0.0   |
| 30  | 0.0   |       |       | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 31  | 0.0   |       |       | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN  | 0.0   | 0.0   | 0.0   | 0.0003 | 0.0   | 0.0   | 0.0   | 0.0004 | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES  | 0.011 | 0.0   | 0.001 | 0.131  | 0.0   | 0.005 | 0.001 | 0.165  | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV  | 0.063 | 0.174 | 0.113 | 0.047  | 0.088 | 0.246 | 0.275 | 0.147  | 0.042 | 0.010 | 0.001 | 0.016 |

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 36 yr period, part-year records included.

| 1974 SELECTED HUNOFF EVENT COSHOCTON, OHIO WATERSHED 109 |          |          |           |        |           |          |        |        |       |          |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                                    |          |          | HAINFALL  |        |           |          | RUNOFF |        |       |          |  |
| Date   | Hainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF MARCH 29, 1974                                  |          |          |           |        |           |          |        |        |       |          |  |
| RG 00Y102  |          |          | HG 00Y102 |        |           |          |        |        |       |          |  |
| 3-29   | 0.47     | 0.0      | 3-29      | 1145   | 0.0       | 0.0      | 3-29   | 1158   | 0.0   | 0.0      |  |
|  |          |          |           | 1153   | 1.2750    | 0.17     |        | 1206   | 0.001 | 0.0      |  |
|  |          |          |           | 1154   | 1.2000    | 0.19     |        | 1228   | 0.001 | 0.0002   |  |
|  |          |          |           | 1213   | 0.4737    | 0.34     |        | 1233   | 0.002 | 0.0003   |  |
|  |          |          |           | 1222   | 0.3333    | 0.39     |        | 1254   | 0.002 | 0.0007   |  |
| WATERSHED CONDITIONS:                                    |          |          |           | 1235   | 0.2769    | 0.45     |        | 1316   | 0.001 | 0.0010   |  |
| Standing corn stalks.                                    |          |          |           | 1239   | 0.7500    | 0.50     |        | 1334   | 0.0   | 0.0011   |  |
|  |          |          |           | 1244   | 0.4800    | 0.54     |        |        |       |          |  |
|  |          |          |           | 1250   | 0.1000    | 0.55     |        |        |       |          |  |
|  |          |          |           | 1257   | 0.1714    | 0.57     |        |        |       |          |  |
|  |          |          |           | 1318   | 0.1429    | 0.62     |        |        |       |          |  |
|  |          |          |           | 1558   | 0.0488    | 0.75     |        |        |       |          |  |
|  |          |          |           | 1613   | 0.0800    | 0.77     |        |        |       |          |  |
|  |          |          |           | 1821   | 0.0328    | 0.84     |        |        |       |          |  |
|  |          |          |           | 1920   | 0.0203    | 0.86     |        |        |       |          |  |
|  |          |          |           | 2028   | 0.0265    | 0.89     |        |        |       |          |  |

NOTES: To convert runoff in CFS to IN/HH, multiply by 0.58683000.



COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. SE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 38 sec. E.; Long. 81 deg. 47 min. 07 sec. W.

AREA: 303.00 acres

| MONTHLY PRECIPITATION AND RUFOFF (inches)   |   |                   |       |        |       |         |       | COSHOCTON, OHIO WATERSHED 196             |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 3.22              | 2.08  | 4.59   | 3.17  | 4.47    | 2.41  | 2.92                                      | 7.04  | 3.44    | 1.30  | 3.57     | 4.47  | 42.68  |       |        |       |        |      |
|   | Q | 2.970             | 1.403 | 3.650  | 3.260 | 1.197   | 0.306 | 0.158                                     | 0.497 | 0.993   | 0.224 | 1.615    | 3.359 | 19.631 |       |        |       |        |      |
| STA AV  | P | 2.64              | 2.36  | 3.53   | 3.42  | 3.79    | 4.12  | 4.28                                      | 2.80  | 2.67    | 2.23  | 2.62     | 2.44  | 36.90  |       |        |       |        |      |
|   | Q | 1.722             | 1.888 | 2.854  | 2.385 | 1.477   | 0.963 | 0.668                                     | 0.274 | 0.236   | 0.199 | 0.493    | 1.057 | 14.217 |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUFOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 4-3               | 0.874 | 4-3    | 0.472 | 4-3     | 0.569 | 4-3                                       | 0.707 | 4-3     | 0.837 | 4-3      | 1.009 | 4-3    | 1.205 | 3-29   | 3.595 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6-12              | 3.720 | 6-12   | 1.310 | 6-12    | 1.440 | 7-5                                       | 2.106 | 7-5     | 2.453 | 1-21     | 2.920 | 1-20   | 3.210 | 3-4    | 4.630 |        |      |
|   |   | 1957              |       | 1957   |       | 1957    |       | 1969                                      |       | 1969    |       | 1959     |       | 1959   |       | 1964   |       |        |      |

NOTES: Watershed conditions: Woods, 27%; grassland, 50%; miscellaneous, 23%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began May 1937. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974 DAILY PRECIPITATION (inches) |       |        |        |       |       |       |       |       |       |       |       |        |  |
|-----------------------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| COSHOCTON, OHIO WATERSHED 196     |       |        |        |       |       |       |       |       |       |       |       |        |  |
| Day                               | Jan   | Feb    | Mar    | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec    |  |
| 1                                 | 0.0   | 0.0    | 0.0    | 0.58  | 0.0   | 0.0   | 0.0   | 0.0   | 0.80  | 0.0   | 0.0 T | 1.43S  |  |
| 2                                 | 0.0   | 0.0    | 0.21   | 0.04  | 0.22  | 0.0   | 0.0   | 0.18  | 0.02  | 0.0   | 0.05E | 0.87S  |  |
| 3                                 | 0.02E | 0.0 T  | 0.0    | 1.20  | 0.0 T | 0.0   | 0.0   | 0.21  | 0.58  | 0.0   | 0.0   | 0.0 T  |  |
| 4                                 | 0.0   | 0.02S  | 0.02E  | 0.01  | 0.0   | 0.0   | 0.52  | 0.33  | 0.0   | 0.0   | 1.42  | 0.0    |  |
| 5                                 | 0.0   | 0.0 T  | 0.28   | 0.0   | 0.03  | 0.0   | 0.27  | 0.0   | 0.0   | 0.0   | 0.10  | 0.0    |  |
| 6                                 | 0.0   | 0.87S  | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.18  | 0.0    |  |
| 7                                 | 0.01S | 0.01S  | 0.29   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.03E | 0.0   | 0.26   |  |
| 8                                 | 0.14E | 0.0    | 0.0    | 0.30E | 0.13  | 0.0 T | 0.0   | 0.12  | 0.0   | 0.0   | 0.0   | 0.02   |  |
| 9                                 | 0.14E | 0.0    | 0.50   | 0.02E | 0.29  | 0.0   | 0.03E | 0.15E | 0.0   | 0.0   | 0.0   | 0.0 T  |  |
| 10                                | 0.13E | 0.08SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 11                                | 0.14E | 0.08SZ | 0.21   | 0.0   | 0.28  | 0.06  | 0.0   | 0.09  | 0.0   | 0.0   | 0.50  | 0.0    |  |
| 12                                | 0.14E | 0.0    | 0.0    | 0.0   | 0.98  | 0.0   | 0.0   | 0.34  | 0.05E | 0.0   | 0.36  | 0.08 Z |  |
| 13                                | 0.14E | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.05  | 0.48  | 0.0   | 0.04E | 0.09 Z |  |
| 14                                | 0.0   | 0.0    | 0.0    | 0.15  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.36E | 0.02E | 0.0    |  |
| 15                                | 0.0   | 0.0    | 0.50   | 0.0   | 0.09  | 0.77  | 0.01E | 0.0   | 0.0   | 0.51  | 0.0 T | 0.25E  |  |
| 16                                | 0.0   | 0.0    | 0.12E  | 0.0   | 0.0   | 0.11  | 0.0   | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 T  |  |
| 17                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.34  | 0.0   | 0.0   | 0.84  | 0.0   | 0.0   | 0.0   | 0.04S  |  |
| 18                                | 0.51  | 0.0    | 0.04   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.04  | 0.0   | 0.0   | 0.0 T  |  |
| 19                                | 0.83  | 0.26   | 0.03   | 0.0   | 0.0   | 0.08  | 0.0   | 0.0   | 0.0   | 0.04E | 0.03E | 0.12S  |  |
| 20                                | 0.10  | 0.0    | 0.0    | 0.0   | 0.0   | 0.08  | 0.0   | 0.0   | 0.68  | 0.0 T | 0.18  | 0.0    |  |
| 21                                | 0.06  | 0.18   | 0.41E  | 0.0   | 0.0   | 0.45  | 0.0   | 0.0   | 0.51  | 0.0   | 0.08S | 0.08E  |  |
| 22                                | 0.0   | 0.32   | 0.0    | 0.25E | 1.01  | 0.80  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 23                                | 0.50  | 0.0    | 0.13SZ | 0.01E | 0.23  | 0.02E | 0.38  | 0.0   | 0.0   | 0.11  | 0.0   | 0.19   |  |
| 24                                | 0.0   | 0.04SZ | 0.13SZ | 0.0   | 0.26  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.27  | 0.42   |  |
| 25                                | 0.0   | 0.05SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.09  | 0.30E | 0.13   |  |
| 26                                | 0.24  | 0.0    | 0.0    | 0.0   | 0.0   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |  |
| 27                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.72  | 0.04  | 0.0   | 0.01E | 0.01E  |  |
| 28                                | 0.12  | 0.17E  | 0.03E  | 0.0   | 0.04E | 0.0   | 0.02  | 2.18  | 0.06  | 0.0   | 0.0   | 0.0    |  |
| 29                                | 0.0   |        | 1.50   | 0.0   | 0.51  | 0.0   | 1.69  | 1.03  | 0.18  | 0.0   | 0.0   | 0.0    |  |
| 30                                | 0.0   |        | 0.19   | 0.61  | 0.0   | 0.03E | 0.0   | 0.24  | 0.0   | 0.08  | 0.03E | 0.0    |  |
| 31                                | 0.0   |        | 0.0    |       | 0.03E |       | 0.0   | 0.56  |       | 0.0   |       | 0.48E  |  |
| TOTAL                             | 3.22  | 2.08   | 4.59   | 3.17  | 4.47  | 2.41  | 2.92  | 7.04  | 3.44  | 1.30  | 3.57  | 4.47   |  |
| STA AV                            | 2.64  | 2.36   | 3.53   | 3.42  | 3.79  | 4.12  | 4.28  | 2.80  | 2.67  | 2.23  | 2.62  | 2.44   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA AV based on 37 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

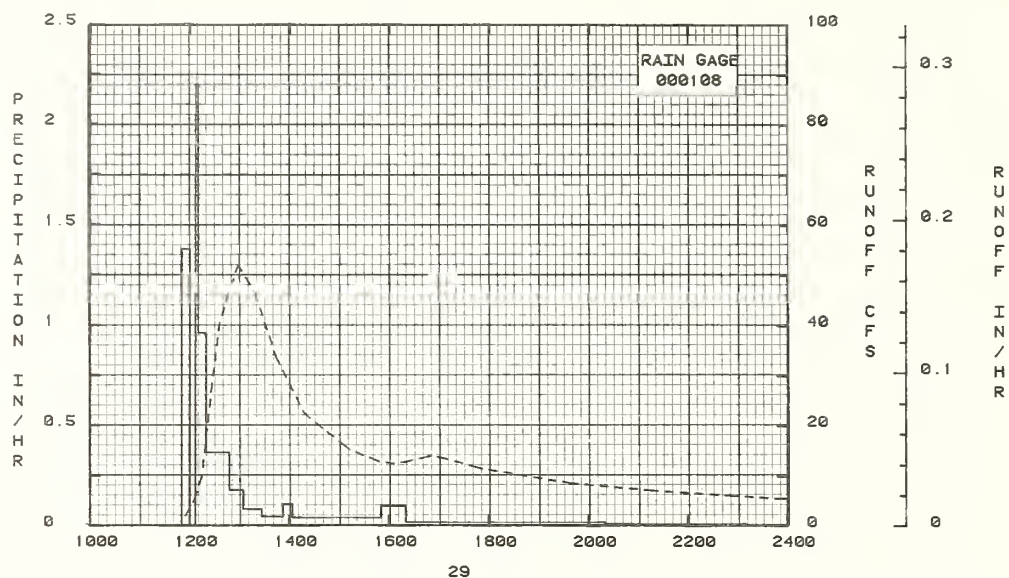
| 1974 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 196 |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.440  | 0.575  | 0.675  | 6.387  | 0.318  | 0.219  | 0.066  | 0.032  | 3.011  | 0.120  | 0.076  | 0.696  |
| 2   | 0.442  | 0.535  | 1.008  | 3.711  | 0.252  | 0.183  | 0.056  | 0.029  | 0.726  | 0.106  | 0.081  | 1.025  |
| 3   | 0.418  | 0.477  | 0.797  | 11.234 | 0.292  | 0.159  | 0.051  | 0.051  | 1.804  | 0.098  | 0.076  | 0.932  |
| 4   | 0.359  | 0.414  | 0.731  | 3.946  | 0.215  | 0.143  | 0.117  | 0.127  | 0.766  | 0.095  | 2.638  | 0.685  |
| 5   | 0.336  | 0.337  | 0.941  | 2.053  | 0.205  | 0.129  | 0.153  | 0.037  | 0.582  | 0.092  | 0.984  | 0.551  |
| 6   | 0.322  | 1.248  | 0.425  | 1.603  | 0.196  | 0.117  | 0.059  | 0.029  | 0.466  | 0.088  | 0.640  | 0.490  |
| 7   | 0.280  | 1.599  | 1.096  | 1.214  | 0.182  | 0.111  | 0.045  | 0.027  | 0.374  | 0.088  | 0.556  | 1.076  |
| 8   | 0.206  | 0.714  | 0.897  | 1.320  | 0.208  | 0.102  | 0.041  | 0.034  | 0.289  | 0.075  | 0.452  | 4.545  |
| 9   | 0.328  | 0.561  | 1.898  | 1.087  | 0.376  | 0.095  | 0.038  | 0.019  | 0.236  | 0.065  | 0.406  | 1.878  |
| 10  | 0.341  | 0.479  | 1.361  | 0.900  | 0.220  | 0.076  | 0.038  | 0.019  | 0.204  | 0.065  | 0.365  | 1.315  |
| 11  | 0.322  | 0.489  | 1.150  | 0.797  | 0.233  | 0.080  | 0.034  | 0.031  | 0.196  | 0.061  | 0.440  | 1.170  |
| 12  | 0.247  | 0.531  | 1.027  | 0.729  | 0.374  | 0.095  | 0.033  | 0.103  | 0.188  | 0.062  | 2.695  | 1.762  |
| 13  | 0.205  | 0.600  | 0.883  | 0.648  | 0.913  | 0.066  | 0.033  | 0.036  | 0.322  | 0.062  | 0.869  | 1.591  |
| 14  | 0.243  | 0.479  | 0.780  | 0.673  | 0.578  | 0.062  | 0.032  | 0.033  | 0.211  | 0.065  | 0.763  | 1.640  |
| 15  | 1.605  | 0.383  | 0.939  | 0.547  | 0.490  | 0.215  | 0.037  | 0.024  | 0.139  | 0.373  | 0.628  | 1.507  |
| 16  | 1.957  | 0.370  | 2.321  | 0.477  | 0.395  | 0.125  | 0.032  | 0.025  | 0.127  | 0.118  | 0.531  | 1.948  |
| 17  | 1.380  | 0.327  | 1.141  | 0.429  | 0.414  | 0.089  | 0.025  | 0.234  | 0.116  | 0.089  | 0.466  | 1.447  |
| 18  | 3.069  | 0.308  | 0.970  | 0.395  | 0.390  | 0.067  | 0.025  | 0.033  | 0.113  | 0.079  | 0.418  | 1.110  |
| 19  | 7.825  | 0.484  | 0.979  | 0.360  | 0.270  | 0.065  | 0.025  | 0.028  | 0.098  | 0.076  | 0.395  | 0.985  |
| 20  | 2.368  | 0.495  | 0.763  | 0.327  | 0.227  | 0.066  | 0.023  | 0.024  | 0.420  | 0.075  | 0.502  | 0.810  |
| 21  | 2.019  | 0.421  | 1.334  | 0.308  | 0.202  | 0.250  | 0.022  | 0.022  | 0.518  | 0.076  | 0.451  | 0.741  |
| 22  | 1.400  | 1.783  | 0.937  | 0.378  | 1.231  | 0.334  | 0.023  | 0.023  | 0.292  | 0.076  | 0.392  | 0.652  |
| 23  | 3.110  | 0.908  | 0.833  | 0.318  | 0.743  | 0.383  | 0.048  | 0.022  | 0.211  | 0.076  | 0.342  | 0.932  |
| 24  | 1.571  | 0.769  | 0.815  | 0.271  | 0.689  | 0.120  | 0.036  | 0.020  | 0.196  | 0.090  | 0.424  | 4.186  |
| 25  | 1.185  | 0.670  | 0.765  | 0.233  | 0.466  | 0.109  | 0.029  | 0.022  | 0.188  | 0.092  | 1.405  | 2.246  |
| 26  | 1.097  | 0.620  | 0.941  | 0.219  | 0.395  | 0.107  | 0.028  | 0.020  | 0.171  | 0.081  | 0.883  | 1.486  |
| 27  | 1.332  | 0.603  | 0.873  | 0.202  | 0.330  | 0.092  | 0.028  | 0.064  | 0.158  | 0.076  | 0.792  | 1.441  |
| 28  | 1.052  | 0.682  | 0.766  | 0.188  | 0.289  | 0.081  | 0.031  | 1.638  | 0.176  | 0.076  | 0.732  | 0.924  |
| 29  | 0.900  |        | 8.663  | 0.182  | 0.526  | 0.081  | 0.709  | 2.000  | 0.200  | 0.075  | 0.610  | 0.798  |
| 30  | 0.780  |        | 4.254  | 0.365  | 0.346  | 0.070  | 0.055  | 0.595  | 0.143  | 0.090  | 0.544  | 0.712  |
| 31  | 0.670  |        | 5.498  |        | 0.278  |        | 0.034  | 0.929  |        | 0.081  |        | 1.483  |
| MEAN  | 1.2197 | 0.6379 | 1.4988 | 1.3835 | 0.4916 | 0.1298 | 0.0647 | 0.2042 | 0.4213 | 0.0918 | 0.6852 | 1.3794 |
| INCHES  | 2.970  | 1.403  | 3.650  | 3.260  | 1.197  | 0.306  | 0.158  | 0.497  | 0.993  | 0.224  | 1.615  | 3.359  |
| STA AV  | 1.722  | 1.888  | 2.854  | 2.385  | 1.477  | 0.963  | 0.668  | 0.274  | 0.236  | 0.199  | 0.493  | 1.057  |

NOTES: To convert CFS to IN/DAY, multiply by 0.0786. STA AV based on 37 yr period, part-year records included.

| 1974 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 196                    |          |          |          |        |           |          |        |        |        |          |
|---|----------|----------|----------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL |        |           | RUNOFF   |        |        |        |          |
| Date  | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF MARCH 29, 1974   |          |          |          |        |           |          |        |        |        |          |
| RG 000108   |          |          |          |        |           |          |        |        |        |          |
| 3-29  | 0.49     | 0.102    | 3-29     | 1150   | 0.0       | 0.0      | 3-29   | 1155   | 2.140  | 0.0      |
|   |          |          |          | 1200   | 1.3800    | 0.23     |        | 1206   | 5.400  | 0.0023   |
|   |          |          |          | 1207   | 0.0       | 0.23     |        | 1215   | 10.200 | 0.0061   |
|   |          |          |          | 1210   | 2.2000    | 0.34     |        | 1220   | 17.800 | 0.0099   |
|   |          |          |          | 1220   | 0.9600    | 0.50     |        | 1227   | 28.500 | 0.0187   |
| WATERSHED CONDITIONS:<br>Woods, 27%; grassland, 50%;<br>miscellaneous, 23%. |          |          |          |        |           |          |        |        |        |          |
|   |          |          |          | 1248   | 0.3643    | 0.67     |        | 1236   | 40.600 | 0.0357   |
|   |          |          |          | 1305   | 0.1765    | 0.72     |        | 1258   | 52.000 | 0.0913   |
|   |          |          |          | 1327   | 0.0818    | 0.75     |        | 1319   | 46.200 | 0.1475   |
|   |          |          |          | 1353   | 0.0462    | 0.77     |        | 1344   | 33.600 | 0.2019   |
|   |          |          |          | 1404   | 0.1091    | 0.79     |        | 1418   | 22.400 | 0.2539   |
|   |          |          |          | 1550   | 0.0396    | 0.86     |        | 1512   | 15.200 | 0.3092   |
|   |          |          |          | 1620   | 0.1000    | 0.91     |        | 1548   | 12.800 | 0.3367   |
|   |          |          |          | 2020   | 0.0175    | 0.98     |        | 1606   | 12.400 | 0.3491   |
|   |          |          |          | 2310   | 0.0106    | 1.01     |        | 1619   | 12.800 | 0.3580   |
|   |          |          |          |        |           |          |        | 1649   | 14.000 | 0.3800   |
|   |          |          |          |        |           |          |        | 1702   | 13.600 | 0.3898   |
|   |          |          |          |        |           |          |        | 1752   | 11.400 | 0.4238   |
|   |          |          |          |        |           |          |        | 1938   | 8.520  | 0.4814   |
|   |          |          |          |        |           |          |        | 2124   | 7.000  | 0.5263   |
|   |          |          |          |        |           |          |        | 2300   | 5.970  | 0.5603   |
|   |          |          |          |        |           |          |        | 2400   | 5.400  | 0.5789   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327310.





EVENT OF MARCH 29, 1974  
COSHOCTON, OHIO WATERSHED 196

1974 SELECTED RUNOFF EVENT

COSHOCTON, OHIO WATERSHED 196

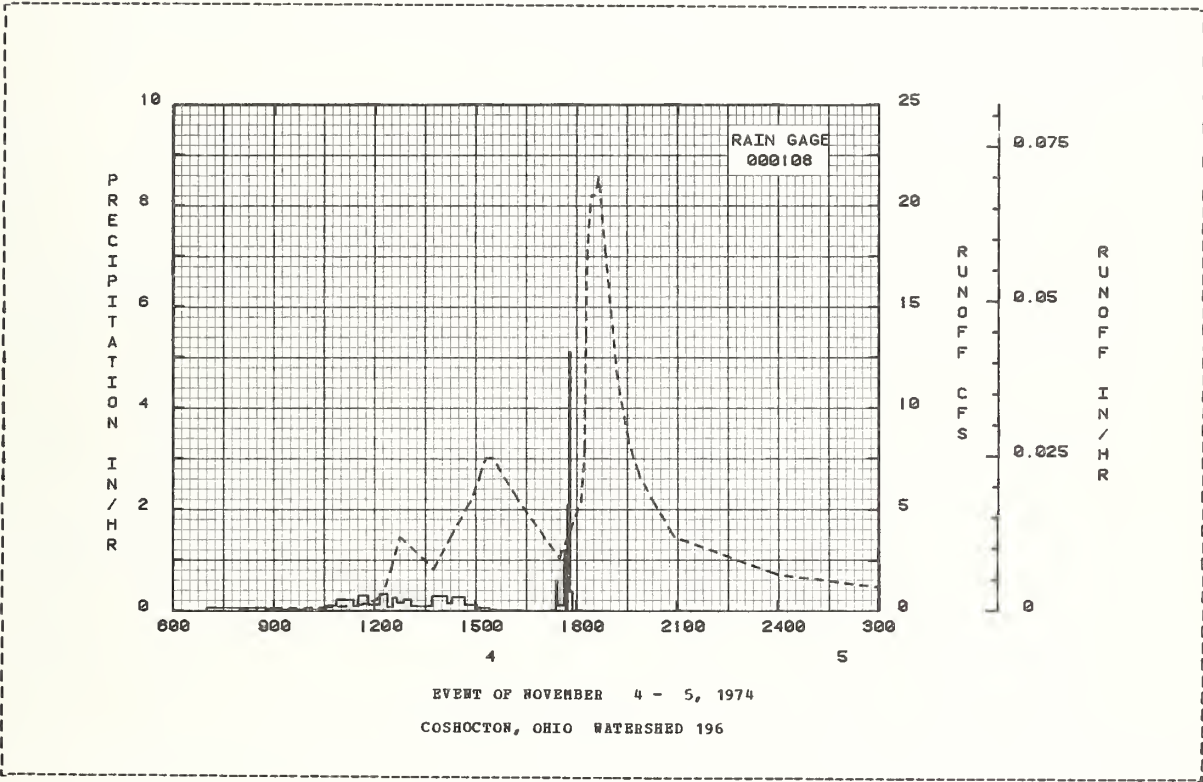
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL       |                  |                      |                  | RUNOFF         |                |               |                  |
|---|----------------------|--------------------|----------------|------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day   | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF NOVEMBER 4 - 5, 1974   |                      |                    |                |                  |                      |                  |                |                |               |                  |
| 11- 4   | RG 000108<br>0.02    | 0.002              | 11- 4          | RG 000108<br>700 | 0.0                  | 0.0              | 11- 4          | 800            | 0.095         | 0.0              |
|   |                      |                    |                | 846              | 0.0623               | 0.11             |                | 900            | 0.118         | 0.0004           |
|   |                      |                    |                | 1033             | 0.0224               | 0.15             |                | 1030           | 0.138         | 0.0010           |
|   |                      |                    |                | 1052             | 0.0947               | 0.18             |                | 1130           | 0.242         | 0.0016           |
|   |                      |                    |                | 1123             | 0.2129               | 0.29             |                | 1200           | 0.503         | 0.0022           |
| WATERSHED CONDITIONS:<br>Woods, 27%; Grassland, 50%;<br>Miscellaneous, 23%. |                      |                    |                | 1131             | 0.0751               | 0.30             |                | 1215           | 0.831         | 0.0028           |
|   |                      |                    |                | 1139             | 0.2999               | 0.34             |                | 1230           | 2.050         | 0.0040           |
|   |                      |                    |                | 1149             | 0.3000               | 0.39             |                | 1245           | 3.620         | 0.0063           |
|   |                      |                    |                | 1200             | 0.1091               | 0.41             |                | 1345           | 2.050         | 0.0156           |
|   |                      |                    |                | 1210             | 0.1199               | 0.43             |                | 1415           | 3.620         | 0.0202           |
|   |                      |                    |                | 1223             | 0.3231               | 0.50             |                | 1451           | 5.400         | 0.0290           |
|   |                      |                    |                | 1233             | 0.0600               | 0.51             |                | 1507           | 6.560         | 0.0342           |
|   |                      |                    |                | 1240             | 0.2571               | 0.54             |                | 1511           | 7.000         | 0.0357           |
|   |                      |                    |                | 1252             | 0.1500               | 0.57             |                | 1518           | 7.500         | 0.0385           |
|   |                      |                    |                | 1306             | 0.2143               | 0.62             |                | 1531           | 7.500         | 0.0438           |
|   |                      |                    |                | 1336             | 0.0800               | 0.66             |                | 1617           | 5.400         | 0.0600           |
|   |                      |                    |                | 1343             | 0.0857               | 0.67             |                | 1730           | 2.590         | 0.0759           |
|   |                      |                    |                | 1410             | 0.2889               | 0.80             |                | 1809           | 5.400         | 0.0844           |
|   |                      |                    |                | 1419             | 0.1333               | 0.82             |                | 1815           | 8.000         | 0.0866           |
|   |                      |                    |                | 1441             | 0.2727               | 0.92             |                | 1817           | 13.600        | 0.0877           |
|   |                      |                    |                | 1503             | 0.1091               | 0.96             |                | 1819           | 17.800        | 0.0895           |
|   |                      |                    |                | 1526             | 0.0522               | 0.98             |                | 1826           | 20.500        | 0.0966           |
|   |                      |                    |                | 1724             | 0.0102               | 1.00             |                | 1832           | 20.500        | 0.1035           |
|   |                      |                    |                | 1727             | 0.6000               | 1.03             |                | 1839           | 21.400        | 0.1115           |
|   |                      |                    |                | 1739             | 0.1000               | 1.05             |                | 1851           | 17.800        | 0.1243           |
|   |                      |                    |                | 1742             | 1.2000               | 1.11             |                | 1913           | 11.400        | 0.1418           |
|   |                      |                    |                | 1745             | 0.0                  | 1.11             |                | 1934           | 8.260         | 0.1531           |
|   |                      |                    |                | 1747             | 2.0998               | 1.18             |                | 1954           | 6.560         | 0.1612           |
|   |                      |                    |                | 1749             | 5.0999               | 1.35             |                | 2017           | 5.400         | 0.1687           |
|   |                      |                    |                | 1754             | 0.3600               | 1.38             |                | 2055           | 3.620         | 0.1780           |

WATERSHED CONDITIONS:  
Woods, 27%; Grassland, 50%;  
Miscellaneous, 23%.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327310.

| 1974      SELECTED RUNOFF EVENT                   |          |          | COSHOCKTON, OHIO    WATERSHED 196 |        |           |          |        |        |                 |
|---|----------|----------|-----------------------------------|--------|-----------|----------|--------|--------|-----------------|
| ANTECEDENT CONDITIONS                             |          |          | RAINFALL                          |        |           | RUNOFF   |        |        |                 |
| Date  | Rainfall | Runoff   | Date                              | Time   | Intensity | Acc.     | Date   | Time   | Rate            |
| Mo-Day  | (inches) | (inches) | Mo-Day                            | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)           |
| EVENT OF NOVEMBER      4 - 5, 1974    (CONTINUED) |          |          |                                   |        |           |          |        |        |                 |
|   |          |          |                                   |        |           |          | 11- 4  | 2400   | 1.770    0.2052 |

NOTES:    To convert runoff in CFS to IN/HR, multiply by 0.00327310.



COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 50 sec. N.; Long. 81 deg. 47 min. 32 sec. W.

AREA: 52.80 acres

| MONTHLY PRECIPITATION AND RUHOFF (inches)   |   |                   |       |        |       |         | COSHOCTON, OHIO WATERSHED 174 |   |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------------------------------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                           | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 3.10              | 1.96  | 4.90   | 3.25  | 4.32    | 2.52                          | 2.82                                      | 6.73  | 3.30  | 1.28  | 3.40  | 4.41  | 41.99  |       |        |       |
|   | Q | 2.497             | 0.978 | 2.318  | 1.812 | 0.487   | 0.091                         | 0.055                                     | 0.469 | 0.527 | 0.075 | 0.893 | 2.408 | 12.611 |       |        |       |
| STA AV  | P | 2.26              | 2.14  | 3.57   | 3.34  | 3.34    | 2.91                          | 3.83                                      | 2.69  | 2.55  | 1.95  | 2.83  | 2.62  | 34.03  |       |        |       |
|   | Q | 0.918             | 1.195 | 2.170  | 1.545 | 0.673   | 0.247                         | 0.411                                     | 0.105 | 0.076 | 0.071 | 0.382 | 0.669 | 8.461  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUHOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                               |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                               | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                          | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4- 3              | 1.011 | 4- 3   | 0.489 | 4- 3    | 0.573                         | 4- 3                                      | 0.673 | 4- 3  | 0.772 | 4- 3  | 0.869 | 4- 1   | 1.036 | 3-29   | 2.311 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                               |   |       |       |       |       |       |        |       |        |       |
|   |   | 7- 5              | 1.085 | 4-25   | 0.820 | 4-25    | 1.110                         | 7- 5                                      | 1.802 | 7- 5  | 2.154 | 7- 5  | 2.365 | 3- 9   | 2.540 | 3- 4   | 3.710 |
|   |   | 1969              |       | 1961   |       | 1961    |                               | 1969                                      |       | 1969  |       | 1969  |       | 1964   |       | 1964   |       |

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974 DAILY PRECIPITATION (inches) |       |        |        |       |       |       |       |       |       |       |       |       |  | COSHOCTON, OHIO WATERSHED 174 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb    | Mar    | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.0   | 0.0    | 0.0    | 0.59  | 0.0   | 0.0   | 0.0   | 0.0   | 0.79  | 0.0   | 0.0 T | 1.31S |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0   | 0.0    | 0.22   | 0.03  | 0.24  | 0.0   | 0.0   | 0.27  | 0.05  | 0.0   | 0.04  | 0.99S |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.02E | 0.0 T  | 0.0    | 1.29  | 0.0 T | 0.0   | 0.0   | 0.21  | 0.57  | 0.0   | 0.0   | 0.0 T |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.02S  | 0.02E  | 0.02  | 0.0   | 0.0   | 0.49  | 0.38  | 0.0   | 0.0   | 1.39  | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0   | 0.0 T  | 0.26   | 0.0   | 0.05  | 0.0   | 0.28  | 0.0   | 0.0   | 0.0   | 0.06  | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.0   | 0.85S  | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.18  | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.01S | 0.01S  | 0.29   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.03E | 0.0   | 0.26  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.12E | 0.0    | 0.0    | 0.26E | 0.14  | 0.0 T | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 0.04  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.13E | 0.0    | 0.53   | 0.03E | 0.25  | 0.0   | 0.02  | 0.17  | 0.0   | 0.0   | 0.0   | 0.0 T |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.12E | 0.03SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.12E | 0.04SZ | 0.200  | 0.0   | 0.407 | 0.0 6 | 0.0   | 0.0 7 | 0.0   | 0.0   | 0.407 | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.13E | 0.0    | 0.0    | 0.0   | 1.01  | 0.0   | 0.0   | 0.22  | 0.02E | 0.0   | 0.35  | 0.07  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.12E | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.04  | 0.44  | 0.0   | 0.02E | 0.08  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.0    | 0.0    | 0.19  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.38  | 0.02E | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0    | 0.50   | 0.0   | 0.10  | 0.82  | 0.01E | 0.0   | 0.0   | 0.50  | 0.0 T | 0.20E |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0    | 0.18E  | 0.0   | 0.0   | 0.15  | 0.0   | 0.0   | 0.0   | 0.08  | 0.0   | 0.0 T |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.35  | 0.0   | 0.0   | 0.76  | 0.0   | 0.0   | 0.0   | 0.04S |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.53  | 0.0    | 0.04   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0 T |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.81  | 0.27   | 0.09   | 0.0   | 0.0   | 0.09  | 0.0   | 0.0   | 0.0   | 0.02E | 0.02E | 0.08S |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.11  | 0.0    | 0.01   | 0.0   | 0.0   | 0.10  | 0.0   | 0.0   | 0.62  | 0.0 T | 0.20  | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.07  | 0.19   | 0.47E  | 0.0   | 0.0   | 0.52  | 0.0   | 0.0   | 0.49  | 0.0   | 0.08S | 0.05E |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.31   | 0.0    | 0.24E | 0.63  | 0.79  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.50  | 0.0    | 0.22SZ | 0.03E | 0.25  | 0.0 T | 0.38  | 0.0   | 0.0   | 0.09  | 0.0   | 0.20  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0   | 0.05SZ | 0.23SZ | 0.0   | 0.27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.28  | 0.43  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.0   | 0.05SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  | 0.32E | 0.15  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.19  | 0.0    | 0.0    | 0.0   | 0.0   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.71  | 0.09  | 0.0   | 0.01E | 0.01E |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.12  | 0.14E  | 0.04   | 0.0   | 0.05  | 0.0   | 0.01  | 1.89  | 0.07  | 0.0   | 0.0   | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 1.37   | 0.0    | 0.0   | 0.50  | 0.0   | 1.63  | 1.10  | 0.13  | 0.0   | 0.0   | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.23   | 0.57   | 0.01  | 0.04  | 0.04  | 0.0   | 0.26  | 0.0   | 0.06  | 0.03E | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0    | 0.0    | 0.04  | 0.0   | 0.0   | 0.0   | 0.58  | 0.0   | 0.0   | 0.50E | 0.0   |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 3.10  | 1.96   | 4.90   | 3.25  | 4.32  | 2.52  | 2.82  | 6.73  | 3.30  | 1.28  | 3.40  | 4.41  |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 2.26  | 2.14   | 3.57   | 3.34  | 3.34  | 2.91  | 3.83  | 2.69  | 2.55  | 1.95  | 2.83  | 2.62  |  |                               |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

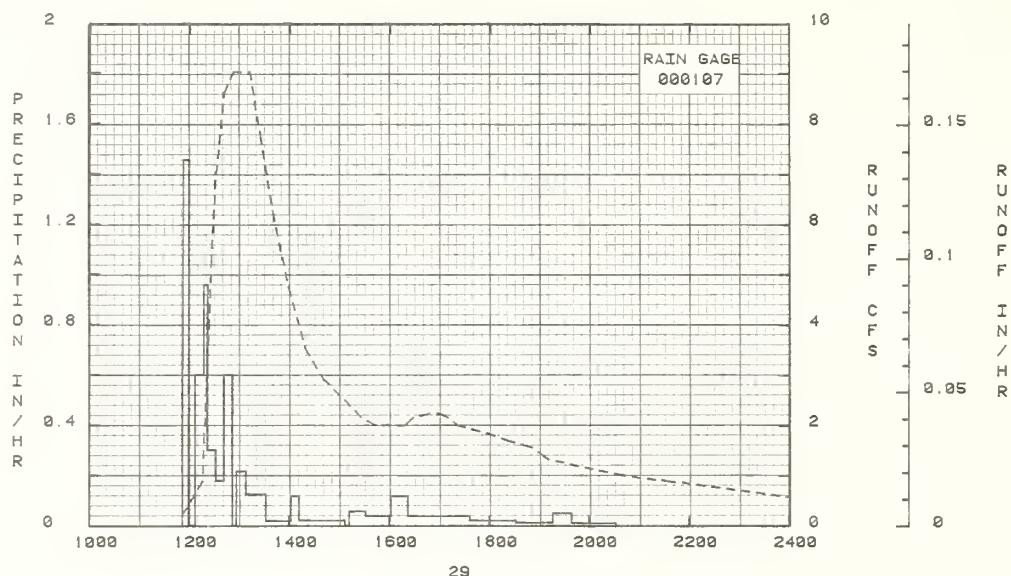
| 1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, OHIO WATERSRED 174 |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.033  | 0.055  | 0.072  | 0.336  | 0.015  | 0.006  | 0.0    | 0.0    | 0.506  | 0.009  | 0.002  | 0.053  |
| 2   | 0.028  | 0.053  | 0.157  | 0.450  | 0.010  | 0.004  | 0.0    | 0.0 T  | 0.040  | 0.006  | 0.002  | 0.084  |
| 3   | 0.027  | 0.043  | 0.088  | 1.765  | 0.014  | 0.003  | 0.0    | 0.0    | 0.274  | 0.007  | 0.002  | 0.072  |
| 4   | 0.026  | 0.037  | 0.076  | 0.376  | 0.010  | 0.002  | 0.009  | 0.017  | 0.043  | 0.007  | 0.404  | 0.055  |
| 5   | 0.021  | 0.027  | 0.124  | 0.185  | 0.008  | 0.002  | 0.016  | 0.0    | 0.015  | 0.007  | 0.091  | 0.046  |
| 6   | 0.021  | 0.225  | 0.078  | 0.134  | 0.009  | 0.002  | 0.0 T  | 0.0    | 0.010  | 0.007  | 0.054  | 0.046  |
| 7   | 0.017  | 0.230  | 0.153  | 0.085  | 0.006  | 0.001  | 0.0    | 0.0    | 0.008  | 0.008  | 0.044  | 0.218  |
| 8   | 0.012  | 0.086  | 0.091  | 0.106  | 0.006  | 0.001  | 0.0    | 0.0    | 0.006  | 0.004  | 0.027  | 0.796  |
| 9   | 0.023  | 0.056  | 0.287  | 0.075  | 0.018  | 0.0 T  | 0.0    | 0.0    | 0.005  | 0.002  | 0.021  | 0.229  |
| 10  | 0.028  | 0.040  | 0.156  | 0.064  | 0.006  | 0.0    | 0.0    | 0.0    | 0.005  | 0.002  | 0.019  | 0.140  |
| 11  | 0.027  | 0.039  | 0.130  | 0.055  | 0.016  | 0.0 T  | 0.0    | 0.0    | 0.005  | 0.002  | 0.036  | 0.123  |
| 12  | 0.019  | 0.059  | 0.119  | 0.042  | 0.498  | 0.0 T  | 0.0    | 0.002  | 0.006  | 0.002  | 0.377  | 0.275  |
| 13  | 0.013  | 0.072  | 0.074  | 0.036  | 0.067  | 0.0    | 0.0    | 0.0    | 0.021  | 0.002  | 0.075  | 0.191  |
| 14  | 0.017  | 0.048  | 0.059  | 0.049  | 0.035  | 0.0    | 0.0    | 0.0    | 0.010  | 0.006  | 0.059  | 0.205  |
| 15  | 0.419  | 0.033  | 0.102  | 0.033  | 0.026  | 0.021  | 0.0    | 0.0    | 0.004  | 0.041  | 0.039  | 0.163  |
| 16  | 0.377  | 0.033  | 0.293  | 0.030  | 0.017  | 0.005  | 0.0    | 0.0    | 0.003  | 0.008  | 0.030  | 0.264  |
| 17  | 0.200  | 0.030  | 0.105  | 0.024  | 0.022  | 0.002  | 0.0    | 0.024  | 0.003  | 0.005  | 0.024  | 0.154  |
| 18  | 0.616  | 0.027  | 0.083  | 0.019  | 0.021  | 0.001  | 0.0    | 0.0    | 0.004  | 0.005  | 0.021  | 0.106  |
| 19  | 1.437  | 0.063  | 0.087  | 0.017  | 0.011  | 0.001  | 0.0    | 0.0    | 0.003  | 0.005  | 0.021  | 0.096  |
| 20  | 0.278  | 0.055  | 0.059  | 0.015  | 0.009  | 0.001  | 0.0    | 0.0    | 0.051  | 0.004  | 0.041  | 0.071  |
| 21  | 0.270  | 0.040  | 0.177  | 0.013  | 0.007  | 0.034  | 0.0    | 0.0    | 0.069  | 0.003  | 0.034  | 0.060  |
| 22  | 0.156  | 0.343  | 0.084  | 0.020  | 0.065  | 0.037  | 0.0    | 0.0    | 0.016  | 0.002  | 0.027  | 0.050  |
| 23  | 0.489  | 0.113  | 0.069  | 0.016  | 0.045  | 0.068  | 0.0    | 0.0    | 0.008  | 0.002  | 0.021  | 0.131  |
| 24  | 0.189  | 0.089  | 0.085  | 0.015  | 0.042  | 0.005  | 0.0    | 0.0    | 0.006  | 0.002  | 0.038  | 0.628  |
| 25  | 0.139  | 0.071  | 0.082  | 0.012  | 0.015  | 0.003  | 0.0    | 0.0    | 0.005  | 0.002  | 0.214  | 0.320  |
| 26  | 0.125  | 0.064  | 0.090  | 0.008  | 0.012  | 0.002  | 0.0    | 0.0    | 0.005  | 0.002  | 0.068  | 0.144  |
| 27  | 0.179  | 0.062  | 0.068  | 0.007  | 0.008  | 0.0 T  | 0.0    | 0.007  | 0.005  | 0.002  | 0.061  | 0.106  |
| 28  | 0.122  | 0.076  | 0.060  | 0.006  | 0.007  | 0.0 T  | 0.0    | 0.331  | 0.006  | 0.002  | 0.055  | 0.084  |
| 29  | 0.091  |        | 1.384  | 0.005  | 0.035  | 0.0 T  | 0.096  | 0.393  | 0.014  | 0.002  | 0.039  | 0.069  |
| 30  | 0.078  |        | 0.427  | 0.022  | 0.013  | 0.001  | 0.001  | 0.081  | 0.013  | 0.002  | 0.033  | 0.057  |
| 31  | 0.064  |        | 0.221  |        | 0.009  |        | 0.0    | 0.185  |        | 0.002  |        | 0.307  |
| MEAN  | 0.1787 | 0.0775 | 0.1659 | 0.1340 | 0.0349 | 0.0068 | 0.0039 | 0.0336 | 0.0390 | 0.0053 | 0.0660 | 0.1723 |
| INCRS   | 2.497  | 0.978  | 2.318  | 1.812  | 0.487  | 0.091  | 0.055  | 0.469  | 0.527  | 0.075  | 0.893  | 2.408  |
| STA AV  | 0.918  | 1.195  | 2.170  | 1.545  | 0.673  | 0.247  | 0.411  | 0.105  | 0.076  | 0.071  | 0.382  | 0.669  |

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV based on 14 yr period, part-year records included.

| 1974 SELECTED RUNOFF EVENT COSROCTON, OHIO WATERSRED 174 |          |          |           |        |           |          |        |        |       |          |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                                    |          |          | RAINFALL  |        |           |          | RUNOFF |        |       |          |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF MARCR 29, 1974                                  |          |          |           |        |           |          |        |        |       |          |  |
| RG 000107  |          |          | RG 000107 |        |           |          |        |        |       |          |  |
| 3-29   | 0.51     | 0.089    | 3-29      | 1152   | 0.0       | 0.0      | 3-29   | 1152   | 0.233 | 0.0      |  |
|  |          |          |           | 1159   | 1.4571    | 0.17     |        | 1216   | 0.903 | 0.0043   |  |
|  |          |          |           | 1207   | 0.0       | 0.17     |        | 1218   | 1.840 | 0.0051   |  |
|  |          |          |           | 1217   | 0.6000    | 0.27     |        | 1221   | 3.020 | 0.0074   |  |
|  |          |          |           | 1222   | 0.9600    | 0.35     |        | 1224   | 4.100 | 0.0107   |  |
| WATERSRED CONDITIONS:                                    |          |          |           | 1232   | 0.3000    | 0.40     |        | 1226   | 5.380 | 0.0137   |  |
| Cover of 15%, hardwoods; 2%,                             |          |          |           | 1242   | 0.1800    | 0.43     |        | 1231   | 6.880 | 0.0233   |  |
| reforested; 67%, grassland;                              |          |          |           | 1252   | 0.6000    | 0.53     |        | 1241   | 8.620 | 0.0476   |  |
| 16%, miscellaneous. Watershed                            |          |          |           | 1257   | 0.0       | 0.53     |        | 1252   | 9.020 | 0.0779   |  |
| in improved practice.                                    |          |          |           | 1308   | 0.2182    | 0.57     |        | 1312   | 9.020 | 0.1344   |  |
|  |          |          |           | 1332   | 0.1250    | 0.62     |        | 1326   | 7.600 | 0.1708   |  |
|  |          |          |           | 1402   | 0.0200    | 0.63     |        | 1340   | 6.210 | 0.2011   |  |
|  |          |          |           | 1412   | 0.1200    | 0.65     |        | 1359   | 4.720 | 0.2336   |  |
|  |          |          |           | 1507   | 0.0218    | 0.67     |        | 1419   | 3.520 | 0.2594   |  |
|  |          |          |           | 1512   | 0.0       | 0.67     |        | 1441   | 2.920 | 0.2816   |  |
|  |          |          |           | 1532   | 0.0600    | 0.69     |        | 1526   | 2.160 | 0.3173   |  |
|  |          |          |           | 1602   | 0.0400    | 0.71     |        | 1543   | 2.000 | 0.3284   |  |
|  |          |          |           | 1622   | 0.1200    | 0.75     |        | 1618   | 2.000 | 0.3503   |  |
|  |          |          |           | 1737   | 0.0400    | 0.80     |        | 1628   | 2.160 | 0.3568   |  |
|  |          |          |           | 1832   | 0.0218    | 0.82     |        | 1648   | 2.240 | 0.3706   |  |
|  |          |          |           | 1916   | 0.0136    | 0.83     |        | 1659   | 2.240 | 0.3783   |  |
|  |          |          |           | 1939   | 0.0522    | 0.85     |        | 1710   | 2.160 | 0.3859   |  |
|  |          |          |           | 2032   | 0.0113    | 0.86     |        | 1722   | 2.000 | 0.3937   |  |
|  |          |          |           |        |           |          |        | 1758   | 1.840 | 0.4154   |  |
|  |          |          |           |        |           |          |        | 1821   | 1.700 | 0.4281   |  |
|  |          |          |           |        |           |          |        | 1851   | 1.560 | 0.4434   |  |
|  |          |          |           |        |           |          |        | 1911   | 1.320 | 0.4524   |  |
|  |          |          |           |        |           |          |        | 2043   | 0.998 | 0.4858   |  |
|  |          |          |           |        |           |          |        | 2134   | 0.903 | 0.5010   |  |
|  |          |          |           |        |           |          |        | 2400   | 0.581 | 0.5349   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01878000.

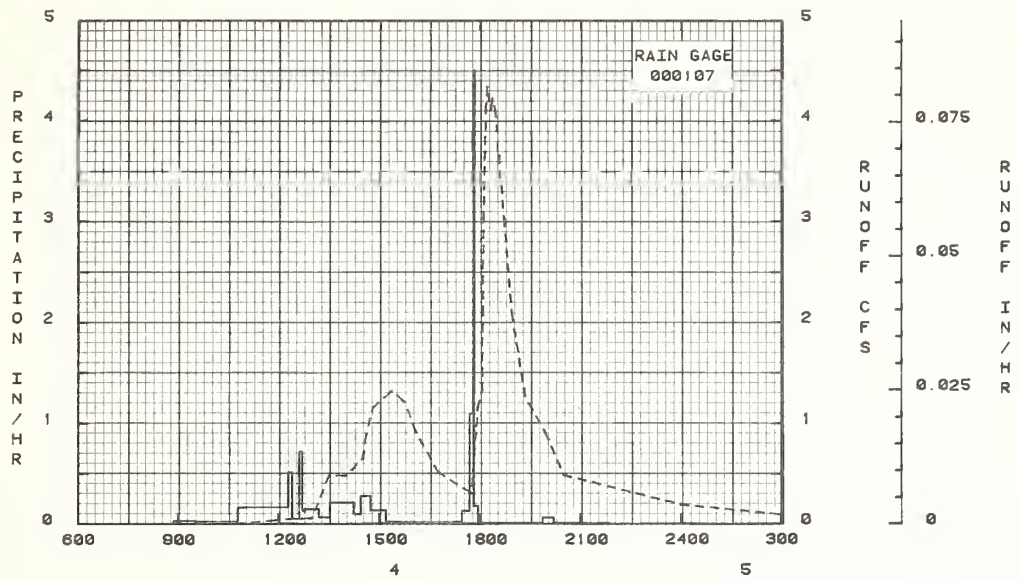




EVENT OF MARCH 29, 1974  
COSHOCOTON, OHIO WATERSHED 174

| 1974 SELECTED RUNOFF EVENT  |                      |                    | COSHOCOTON, OHIO WATERSHED 174 |                |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|--------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                       |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                 | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF NOVEMBER 4 - 5, 1974   |                      |                    |                                |                |                      |                  |                |                |               |                  |
| RG 000107   |                      |                    | RG 000107                      |                |                      |                  |                |                |               |                  |
| 11- 4   | 0.17                 | 0.001              | 11- 4                          | 852            | 0.0                  | 0.0              | 11- 4          | 1045           | 0.005         | 0.0              |
|   |                      |                    |                                | 930            | 0.0316               | 0.02             |                | 1200           | 0.039         | 0.0005           |
|   |                      |                    |                                | 1047           | 0.0234               | 0.05             |                | 1300           | 0.064         | 0.0015           |
|   |                      |                    |                                | 1217           | 0.1667               | 0.30             |                | 1330           | 0.482         | 0.0040           |
|   |                      |                    |                                | 1224           | 0.5143               | 0.36             |                | 1400           | 0.482         | 0.0085           |
| WATERSHED CONDITIONS:<br>Cover of hardwoods, 15%; re-forested, 2%; grassland, 67%; miscellaneous, 16%. Water-shed in improved practice. |                      |                    |                                | 1237           | 0.0462               | 0.37             |                | 1430           | 0.653         | 0.0139           |
|   |                      |                    |                                | 1242           | 0.7200               | 0.43             |                | 1437           | 0.903         | 0.0155           |
|   |                      |                    |                                | 1247           | 0.1199               | 0.44             |                | 1448           | 1.150         | 0.0191           |
|   |                      |                    |                                | 1312           | 0.1440               | 0.50             |                | 1522           | 1.320         | 0.0322           |
|   |                      |                    |                                | 1332           | 0.0600               | 0.52             |                | 1546           | 1.200         | 0.0417           |
|   |                      |                    |                                | 1414           | 0.2143               | 0.67             |                | 1606           | 0.903         | 0.0483           |
|   |                      |                    |                                | 1427           | 0.0923               | 0.69             |                | 1645           | 0.514         | 0.0570           |
|   |                      |                    |                                | 1444           | 0.2824               | 0.77             |                | 1745           | 0.295         | 0.0646           |
|   |                      |                    |                                | 1512           | 0.1286               | 0.83             |                | 1753           | 0.903         | 0.0661           |
|   |                      |                    |                                | 1728           | 0.0177               | 0.87             |                | 1756           | 1.150         | 0.0670           |
|   |                      |                    |                                | 1742           | 0.1286               | 0.90             |                | 1804           | 1.320         | 0.0701           |
|   |                      |                    |                                | 1748           | 1.1000               | 1.01             |                | 1805           | 2.160         | 0.0706           |
|   |                      |                    |                                | 1750           | 4.4998               | 1.16             |                | 1806           | 3.020         | 0.0714           |
|   |                      |                    |                                | 1757           | 0.1715               | 1.18             |                | 1810           | 4.100         | 0.0758           |
|   |                      |                    |                                | 1952           | 0.0052               | 1.19             |                | 1812           | 4.340         | 0.0786           |
|   |                      |                    |                                | 2012           | 0.0600               | 1.21             |                | 1819           | 4.100         | 0.0879           |
| 2152  | 0.0060               | 1.22               |                                | 1821           | 4.220                | 0.0904           |                |                |               |                  |
|   |                      |                    |                                | 1827           | 4.100                | 0.0983           |                |                |               |                  |
|   |                      |                    |                                | 1843           | 3.020                | 0.1160           |                |                |               |                  |
|   |                      |                    |                                | 1857           | 2.080                | 0.1273           |                |                |               |                  |
|   |                      |                    |                                |                |                      |                  | 1921           | 1.260          | 0.1398        |                  |
|   |                      |                    |                                |                |                      |                  | 1957           | 0.903          | 0.1520        |                  |
|   |                      |                    |                                |                |                      |                  | 2030           | 0.482          | 0.1592        |                  |
|   |                      |                    |                                |                |                      |                  | 2400           | 0.195          | 0.1814        |                  |

NOTES: To convert runoff in cfs to IN/HR, multiply by 0.01878000.



EVENT OF NOVEMBER 4 - 5, 1974  
COSHOCOTON, OHIO WATERSHED 174

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tnsicarawas River, Mnskingum River Basin. Lat. 40 deg. 21 min. 47 sec. N.; Long. 81 deg. 47 min. 23 sec. W.

AREA: 187.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | COSHOCTON, OHIO WATERSHED 194             |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 3.10              | 1.96  | 4.90   | 3.25  | 4.32    | 2.52  | 2.82                                      | 6.73  | 3.30    | 1.28  | 3.40     | 4.41  | 41.99  |       |        |       |        |      |
|   | Q | 2.796             | 1.279 | 3.000  | 2.873 | 0.921   | 0.304 | 0.133                                     | 0.429 | 0.962   | 0.239 | 1.427    | 2.884 | 17.247 |       |        |       |        |      |
| STA AV  | P | 2.29              | 2.20  | 3.41   | 3.23  | 3.30    | 2.91  | 3.83                                      | 2.69  | 2.55    | 1.95  | 2.83     | 2.62  | 33.82  |       |        |       |        |      |
|   | Q | 1.347             | 1.670 | 2.970  | 2.270 | 1.308   | 0.514 | 0.569                                     | 0.162 | 0.157   | 0.165 | 0.559    | 0.996 | 12.689 |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 4- 3              | 0.748 | 4- 3   | 0.392 | 4- 3    | 0.500 | 4- 3                                      | 0.643 | 4- 3    | 0.819 | 4- 3     | 1.068 | 4- 3   | 1.254 | 3-29   | 2.887 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 7- 5              | 0.959 | 4-25   | 0.680 | 4-25    | 0.930 | 7- 5                                      | 1.620 | 7- 5    | 1.979 | 7- 5     | 2.269 | 3- 9   | 2.600 | 3- 4   | 3.890 |        |      |
|   |   | 1969              |       | 1961   |       | 1961    |       | 1969                                      |       | 1969    |       | 1969     |       | 1964   |       | 1964   |       |        |      |

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.39-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

| 1974 DAILY PRECIPITATION (inches) |       |        |        |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COSHOCTON, OHIO WATERSHED 194     |       |        |        |       |       |       |       |       |       |       |       |       |       |
|                                   | Day   | Jan    | Feb    | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1                                 | 0.0   | 0.0    | 0.0    | 0.59  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.79  | 0.0   | 0.0 T | 1.31S |
| 2                                 | 0.0   | 0.0    | 0.0    | 0.22  | 0.03  | 0.24  | 0.0   | 0.0   | 0.27  | 0.05  | 0.0   | 0.04  | 0.99S |
| 3                                 | 0.02E | 0.0 T  | 0.0    | 1.29  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.21  | 0.57  | 0.0   | 0.0   | 0.0 T |
| 4                                 | 0.0   | 0.02S  | 0.02E  | 0.02  | 0.0   | 0.0   | 0.0   | 0.49  | 0.38  | 0.0   | 0.0   | 1.39  | 0.0   |
| 5                                 | 0.0   | 0.0 T  | 0.26   | 0.0   | 0.05  | 0.0   | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.06  | 0.0   |
| 6                                 | 0.0   | 0.85S  | 0.0    | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.18  | 0.0   |
| 7                                 | 0.01S | 0.01S  | 0.29   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.03E | 0.0   | 0.0   | 0.26  |
| 8                                 | 0.12E | 0.0    | 0.0    | 0.26E | 0.14  | 0.0 T | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 0.0   | 0.04  |
| 9                                 | 0.13E | 0.0    | 0.53   | 0.03E | 0.25  | 0.0   | 0.02  | 0.17  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T |
| 10                                | 0.12E | 0.03SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11                                | 0.12E | 0.04SZ | 0.200  | 0.0   | 0.407 | 0.0 6 | 0.0   | 0.0 7 | 0.0   | 0.0   | 0.0   | 0.407 | 0.0   |
| 12                                | 0.13E | 0.0    | 0.0    | 0.0   | 1.01  | 0.0   | 0.0   | 0.22  | 0.02E | 0.0   | 0.0   | 0.35  | 0.07  |
| 13                                | 0.12E | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.04  | 0.44  | 0.0   | 0.0   | 0.02E | 0.08  |
| 14                                | 0.0   | 0.0    | 0.0    | 0.19  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.38  | 0.02E | 0.0   |
| 15                                | 0.0   | 0.0    | 0.50   | 0.0   | 0.10  | 0.82  | 0.01E | 0.0   | 0.0   | 0.0   | 0.50  | 0.0 T | 0.20E |
| 16                                | 0.0   | 0.0    | 0.18E  | 0.0   | 0.0   | 0.15  | 0.0   | 0.0   | 0.0   | 0.0   | 0.08  | 0.0   | 0.0 T |
| 17                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.35  | 0.0   | 0.0   | 0.76  | 0.0   | 0.0   | 0.0   | 0.0   | 0.04S |
| 18                                | 0.53  | 0.0    | 0.04   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 T |
| 19                                | 0.81  | 0.27   | 0.09   | 0.0   | 0.0   | 0.09  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.02E | 0.08S |
| 20                                | 0.11  | 0.0    | 0.01   | 0.0   | 0.0   | 0.0   | 0.10  | 0.0   | 0.0   | 0.62  | 0.0 T | 0.20  | 0.0   |
| 21                                | 0.07  | 0.19   | 0.47E  | 0.0   | 0.0   | 0.52  | 0.0   | 0.0   | 0.49  | 0.0   | 0.08S | 0.05E |       |
| 22                                | 0.0   | 0.31   | 0.0    | 0.24E | 0.63  | 0.79  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23                                | 0.50  | 0.0    | 0.22SZ | 0.03E | 0.25  | 0.0 T | 0.38  | 0.0   | 0.0   | 0.0   | 0.09  | 0.0   | 0.20  |
| 24                                | 0.0   | 0.05SZ | 0.23SZ | 0.0   | 0.27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.28  | 0.43  |       |
| 25                                | 0.0   | 0.05SZ | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  | 0.32E | 0.15  |       |
| 26                                | 0.19  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27                                | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.71  | 0.09  | 0.0   | 0.01E | 0.01E |       |
| 28                                | 0.12  | 0.14E  | 0.04   | 0.0   | 0.05  | 0.0   | 0.01  | 1.89  | 0.07  | 0.0   | 0.0   | 0.0   | 0.0   |
| 29                                | 0.0   | 0.0    | 1.37   | 0.0   | 0.50  | 0.0   | 1.63  | 1.10  | 0.13  | 0.0   | 0.0   | 0.0   | 0.0   |
| 30                                | 0.0   | 0.23   | 0.57   | 0.01  | 0.04  | 0.04  | 0.0   | 0.26  | 0.0   | 0.06  | 0.03E | 0.0   | 0.0   |
| 31                                | 0.0   | 0.0    | 0.0    | 0.04  | 0.0   | 0.0   | 0.0   | 0.58  | 0.0   | 0.0   | 0.0   | 0.50E |       |
| TOTAL                             |       | 3.10   | 1.96   | 4.90  | 3.25  | 4.32  | 2.52  | 2.82  | 6.73  | 3.30  | 1.28  | 3.40  | 4.41  |
| STA AV                            |       | 2.29   | 2.20   | 3.41  | 3.23  | 3.30  | 2.91  | 3.83  | 2.69  | 2.55  | 1.95  | 2.83  | 2.62  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

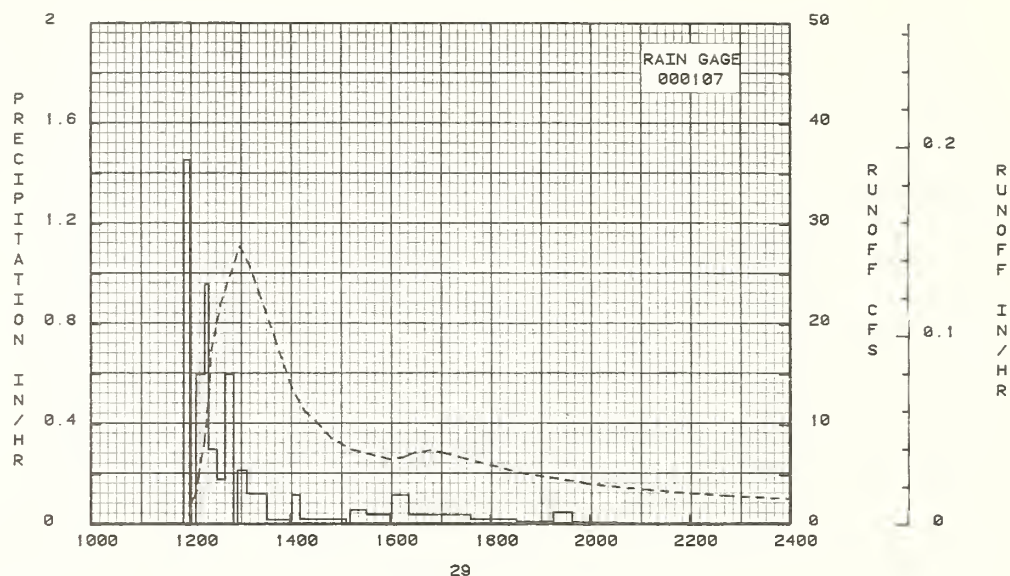
| COSHOCTON, OHIO WATERSHED 194   |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1974 MEAN DAILY DISCHARGE (cfs) |        |        |        |        |        |        |        |        |        |        |        |        |
| Day                             | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1                               | 0.215  | 0.322  | 0.370  | 1.400  | 0.132  | 0.130  | 0.048  | 0.010  | 1.629  | 0.086  | 0.038  | 0.360  |
| 2                               | 0.242  | 0.302  | 0.585  | 2.642  | 0.116  | 0.112  | 0.032  | 0.012  | 0.460  | 0.079  | 0.037  | 0.490  |
| 3                               | 0.229  | 0.258  | 0.438  | 6.342  | 0.121  | 0.094  | 0.024  | 0.025  | 1.114  | 0.072  | 0.037  | 0.429  |
| 4                               | 0.206  | 0.231  | 0.398  | 3.440  | 0.104  | 0.079  | 0.074  | 0.080  | 0.442  | 0.071  | 1.418  | 0.332  |
| 5                               | 0.181  | 0.185  | 0.530  | 1.136  | 0.103  | 0.065  | 0.087  | 0.013  | 0.307  | 0.072  | 0.578  | 0.269  |
| 6                               | 0.188  | 0.748  | 0.398  | 0.880  | 0.099  | 0.057  | 0.032  | 0.009  | 0.244  | 0.071  | 0.337  | 0.243  |
| 7                               | 0.169  | 0.870  | 0.654  | 0.676  | 0.079  | 0.058  | 0.028  | 0.010  | 0.201  | 0.064  | 0.310  | 0.604  |
| 8                               | 0.136  | 0.394  | 0.459  | 0.750  | 0.082  | 0.053  | 0.024  | 0.013  | 0.176  | 0.058  | 0.229  | 2.271  |
| 9                               | 0.183  | 0.308  | 0.983  | 0.603  | 0.137  | 0.047  | 0.021  | 0.015  | 0.153  | 0.057  | 0.202  | 0.999  |
| 10                              | 0.193  | 0.262  | 0.757  | 0.459  | 0.086  | 0.042  | 0.018  | 0.010  | 0.141  | 0.058  | 0.188  | 0.703  |
| 11                              | 0.176  | 0.258  | 0.683  | 0.398  | 0.110  | 0.039  | 0.015  | 0.012  | 0.131  | 0.058  | 0.252  | 0.582  |
| 12                              | 0.152  | 0.275  | 0.636  | 0.378  | 1.694  | 0.042  | 0.015  | 0.060  | 0.124  | 0.053  | 1.348  | 0.893  |
| 13                              | 0.177  | 0.343  | 0.459  | 0.359  | 0.401  | 0.038  | 0.015  | 0.010  | 0.210  | 0.047  | 0.522  | 0.793  |
| 14                              | 0.152  | 0.298  | 0.398  | 0.376  | 0.266  | 0.032  | 0.013  | 0.008  | 0.134  | 0.054  | 0.439  | 0.839  |
| 15                              | 0.953  | 0.192  | 0.503  | 0.322  | 0.223  | 0.133  | 0.010  | 0.006  | 0.094  | 0.226  | 0.342  | 0.753  |
| 16                              | 1.188  | 0.197  | 1.256  | 0.274  | 0.176  | 0.070  | 0.010  | 0.005  | 0.086  | 0.075  | 0.289  | 1.006  |
| 17                              | 0.838  | 0.176  | 0.643  | 0.229  | 0.201  | 0.047  | 0.009  | 0.145  | 0.079  | 0.058  | 0.258  | 0.756  |
| 18                              | 2.014  | 0.172  | 0.544  | 0.202  | 0.176  | 0.032  | 0.010  | 0.013  | 0.087  | 0.058  | 0.243  | 0.622  |
| 19                              | 4.666  | 0.288  | 0.562  | 0.176  | 0.130  | 0.034  | 0.010  | 0.010  | 0.071  | 0.067  | 0.229  | 0.516  |
| 20                              | 1.311  | 0.266  | 0.418  | 0.152  | 0.112  | 0.031  | 0.009  | 0.008  | 0.262  | 0.053  | 0.297  | 0.425  |
| 21                              | 1.081  | 0.240  | 0.772  | 0.131  | 0.103  | 0.146  | 0.010  | 0.005  | 0.324  | 0.047  | 0.269  | 0.398  |
| 22                              | 0.790  | 1.074  | 0.522  | 0.182  | 0.598  | 0.153  | 0.010  | 0.004  | 0.171  | 0.042  | 0.245  | 0.350  |
| 23                              | 1.613  | 0.511  | 0.481  | 0.152  | 0.353  | 0.268  | 0.027  | 0.005  | 0.131  | 0.038  | 0.214  | 0.531  |
| 24                              | 0.850  | 0.439  | 0.485  | 0.141  | 0.337  | 0.086  | 0.013  | 0.005  | 0.121  | 0.039  | 0.273  | 2.309  |
| 25                              | 0.671  | 0.378  | 0.433  | 0.131  | 0.223  | 0.079  | 0.010  | 0.005  | 0.121  | 0.045  | 0.842  | 1.292  |
| 26                              | 0.652  | 0.347  | 0.525  | 0.121  | 0.189  | 0.064  | 0.010  | 0.004  | 0.112  | 0.042  | 0.435  | 0.779  |
| 27                              | 0.761  | 0.328  | 0.502  | 0.121  | 0.152  | 0.058  | 0.010  | 0.049  | 0.099  | 0.037  | 0.398  | 0.647  |
| 28                              | 0.700  | 0.387  | 0.437  | 0.112  | 0.141  | 0.123  | 0.010  | 0.851  | 0.113  | 0.038  | 0.359  | 0.544  |
| 29                              | 0.501  |        | 4.534  | 0.103  | 0.277  | 0.126  | 0.387  | 1.093  | 0.126  | 0.037  | 0.307  | 0.479  |
| 30                              | 0.418  |        | 2.026  | 0.179  | 0.168  | 0.049  | 0.035  | 0.324  | 0.094  | 0.040  | 0.274  | 0.417  |
| 31                              | 0.361  |        | 1.179  |        | 0.145  |        | 0.016  | 0.551  |        | 0.037  |        | 1.028  |
| MEAN                            | 0.7087 | 0.3589 | 0.7603 | 0.7523 | 0.2335 | 0.0796 | 0.0338 | 0.1088 | 0.2520 | 0.0606 | 0.3737 | 0.7308 |
| INCHES                          | 2.796  | 1.279  | 3.000  | 2.873  | 0.921  | 0.304  | 0.133  | 0.429  | 0.962  | 0.239  | 1.427  | 2.884  |
| STA AV                          | 1.347  | 1.670  | 2.970  | 2.270  | 1.308  | 0.514  | 0.569  | 0.162  | 0.157  | 0.165  | 0.559  | 0.996  |

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV based on 14 yr period.

| 1974                       |          |          | COSHOCTON, OHIO WATERSHED 194 |        |           |          |        |        |        |          |  |  |
|----------------------------|----------|----------|-------------------------------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS      |          |          | RAINFALL                      |        |           |          | RUNOFF |        |        |          |  |  |
| Date                       | Rainfall | Runoff   | Date                          | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day                     | (inches) | (inches) | Mo-Day                        | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF MARCH 29, 1974    |          |          |                               |        |           |          |        |        |        |          |  |  |
| RG 000107                  |          |          | RG 000107                     |        |           |          |        |        |        |          |  |  |
| 3-29                       | 0.51     | 0.090    | 3-29                          | 1152   | 0.0       | 0.0      | 3-29   | 1201   | 2.150  | 0.0      |  |  |
|                            |          |          |                               | 1159   | 1.4571    | 0.17     |        | 1208   | 3.450  | 0.0017   |  |  |
|                            |          |          |                               | 1207   | 0.0       | 0.17     |        | 1211   | 5.620  | 0.0029   |  |  |
|                            |          |          |                               | 1217   | 0.6000    | 0.27     |        | 1217   | 8.300  | 0.0066   |  |  |
|                            |          |          |                               | 1222   | 0.9600    | 0.35     |        | 1223   | 13.600 | 0.0125   |  |  |
| WATERSHED CONDITIONS:      |          |          |                               | 1232   | 0.3000    | 0.40     | 1225   | 17.400 | 0.0152 |          |  |  |
| 21% hardwoods; 2% re-      |          |          |                               | 1242   | 0.1800    | 0.43     | 1236   | 22.000 | 0.0343 |          |  |  |
| forested; 58% grassland;   |          |          |                               | 1252   | 0.6000    | 0.53     | 1259   | 27.800 | 0.0850 |          |  |  |
| 11% cultivated practice;   |          |          |                               | 1257   | 0.0       | 0.53     | 1312   | 25.600 | 0.1156 |          |  |  |
| 8% miscellaneous. Water-   |          |          |                               | 1308   | 0.2182    | 0.57     | 1325   | 22.500 | 0.1433 |          |  |  |
| shed in improved practice. |          |          |                               |        |           |          |        |        |        |          |  |  |
|                            |          |          |                               | 1332   | 0.1250    | 0.62     |        | 1341   | 18.700 | 0.1724   |  |  |
|                            |          |          |                               | 1402   | 0.0200    | 0.63     |        | 1402   | 13.600 | 0.2024   |  |  |
|                            |          |          |                               | 1412   | 0.1200    | 0.65     |        | 1417   | 11.400 | 0.2190   |  |  |
|                            |          |          |                               | 1507   | 0.0218    | 0.67     |        | 1431   | 10.300 | 0.2324   |  |  |
|                            |          |          |                               | 1512   | 0.0       | 0.67     |        | 1450   | 8.580  | 0.2482   |  |  |
|                            |          |          |                               | 1532   | 0.0600    | 0.69     |        | 1515   | 7.460  | 0.2660   |  |  |
|                            |          |          |                               | 1602   | 0.0400    | 0.71     |        | 1600   | 6.540  | 0.2938   |  |  |
|                            |          |          |                               | 1622   | 0.1200    | 0.75     |        | 1615   | 6.770  | 0.3026   |  |  |
|                            |          |          |                               | 1737   | 0.0400    | 0.80     |        | 1630   | 7.230  | 0.3119   |  |  |
|                            |          |          |                               | 1832   | 0.0218    | 0.82     |        | 1648   | 7.460  | 0.3236   |  |  |
|                            |          |          |                               | 1916   | 0.0136    | 0.83     |        | 1713   | 7.000  | 0.3396   |  |  |
|                            |          |          |                               | 1939   | 0.0522    | 0.85     |        | 1734   | 6.540  | 0.3521   |  |  |
|                            |          |          |                               | 2032   | 0.0113    | 0.86     |        | 1837   | 5.180  | 0.3848   |  |  |
|                            |          |          |                               |        |           |          |        | 2000   | 4.080  | 0.4187   |  |  |
|                            |          |          |                               |        |           |          |        | 2116   | 3.450  | 0.4440   |  |  |
|                            |          |          |                               |        |           |          |        | 2253   | 2.850  | 0.4710   |  |  |
|                            |          |          |                               |        |           |          |        | 2400   | 2.590  | 0.4871   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530300.



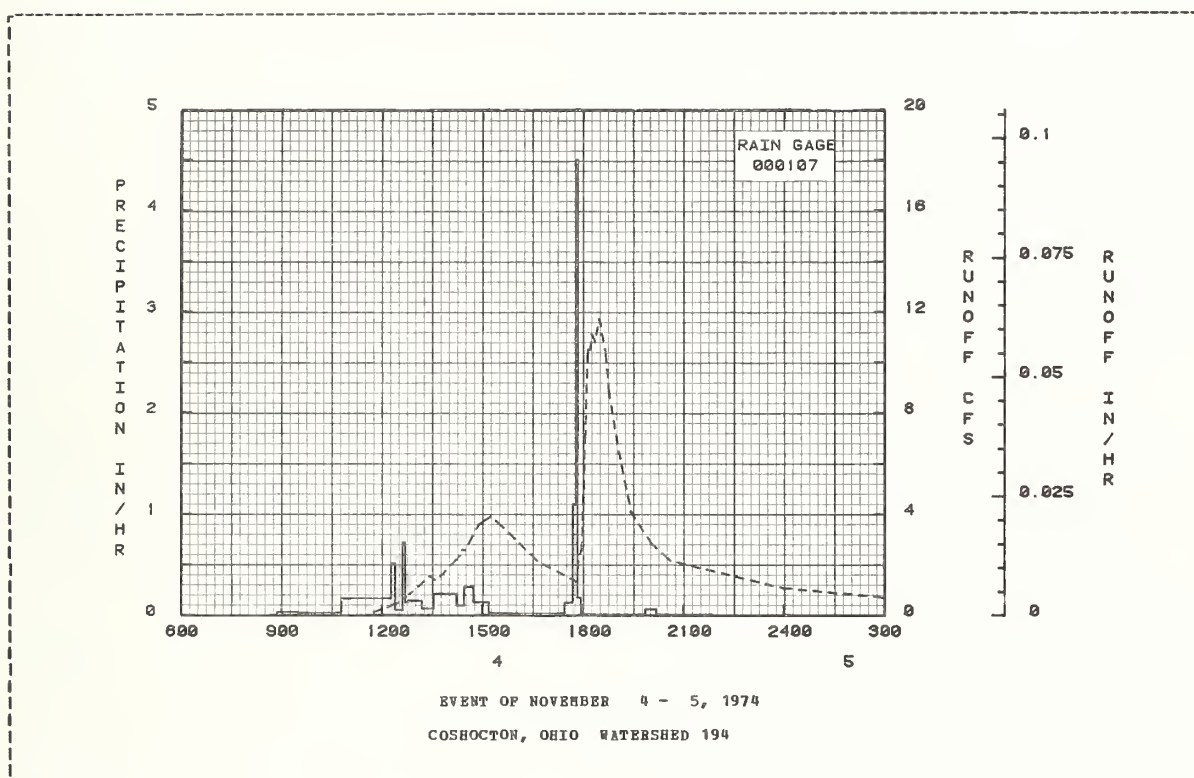


| 1974 SELECTED RUNOFF EVENT  |          |          | COSHOCTON, OHIO WATERSHED 194 |        |           |          |        |        |        |
|---|----------|----------|-------------------------------|--------|-----------|----------|--------|--------|--------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                      |        |           | RUNOFF   |        |        |        |
| Date  | Rainfall | Runoff   | Date                          | Time   | Intensity | Acc.     | Date   | Time   | Rate   |
| Mo-Day  | (inches) | (inches) | Mo-Day                        | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  |
| EVENT OF NOVEMBER 4 - 5, 1974   |          |          |                               |        |           |          |        |        |        |
| RG 000107   |          |          | RG 000107                     |        |           |          |        |        |        |
| 11- 4   | 0.17     | 0.003    | 11- 4                         | 852    | 0.0       | 0.0      | 11- 4  | 1145   | 0.121  |
|   |          |          |                               | 930    | 0.0316    | 0.02     |        | 1230   | 0.500  |
|   |          |          |                               | 1047   | 0.0234    | 0.05     |        | 1255   | 0.940  |
|   |          |          |                               | 1217   | 0.1667    | 0.30     |        | 1325   | 1.550  |
|   |          |          |                               | 1224   | 0.5143    | 0.36     |        | 1335   | 1.390  |
| WATERSHED CONDITIONS:<br>21% hardwoods; 2% re-forested; 58% grassland; 11% cultivated practice; 8% miscellaneous. Watershed in improved practice. |          |          |                               | 1237   | 0.0462    | 0.37     |        | 1345   | 1.550  |
|   |          |          |                               | 1242   | 0.7200    | 0.43     |        | 1410   | 2.150  |
|   |          |          |                               | 1247   | 0.1199    | 0.44     |        | 1420   | 2.360  |
|   |          |          |                               | 1312   | 0.1440    | 0.50     |        | 1424   | 2.590  |
|   |          |          |                               | 1332   | 0.0600    | 0.52     |        | 1429   | 2.590  |
|   |          |          |                               | 1414   | 0.2143    | 0.67     |        | 1443   | 3.150  |
|   |          |          |                               | 1427   | 0.0923    | 0.69     |        | 1454   | 3.600  |
|   |          |          |                               | 1444   | 0.2824    | 0.77     |        | 1514   | 3.910  |
|   |          |          |                               | 1512   | 0.1286    | 0.83     |        | 1538   | 3.450  |
|   |          |          |                               | 1728   | 0.0177    | 0.87     |        | 1638   | 2.150  |
|   |          |          |                               | 1742   | 0.1286    | 0.90     |        | 1750   | 1.310  |
|   |          |          |                               | 1748   | 1.1000    | 1.01     |        | 1752   | 2.150  |
|   |          |          |                               | 1750   | 4.4998    | 1.16     |        | 1758   | 2.590  |
|   |          |          |                               | 1757   | 0.1715    | 1.18     |        | 1801   | 4.420  |
|   |          |          |                               | 1952   | 0.0052    | 1.19     |        | 1804   | 7.000  |
|   |          |          |                               | 2012   | 0.0600    | 1.21     |        | 1809   | 10.500 |
|   |          |          |                               | 2152   | 0.0060    | 1.22     |        | 1813   | 10.500 |
|   |          |          |                               |        |           |          |        | 1816   | 11.100 |
|   |          |          |                               |        |           |          |        | 1821   | 10.800 |
|   |          |          |                               |        |           |          |        | 1829   | 11.700 |
|   |          |          |                               |        |           |          |        | 1841   | 10.300 |
|   |          |          |                               |        |           |          |        | 1846   | 8.860  |
|   |          |          |                               |        |           |          |        | 1902   | 6.770  |
|   |          |          |                               |        |           |          |        | 1926   | 4.080  |
|   |          |          |                               |        |           |          |        | 2002   | 2.850  |
|   |          |          |                               |        |           |          |        |        | 0.1407 |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530300.

| 1974                  |          |          | SELECTED RUNOFF EVENT |        |                         | COSHOCKTON, OHIO WATERSHED 194 |        |        |       |          |
|-----------------------|----------|----------|-----------------------|--------|-------------------------|--------------------------------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS |          |          | RAINFALL              |        |                         | RUNOFF                         |        |        |       |          |
| Date                  | Rainfall | Runoff   | Date                  | Time   | Intensity               | Acc.                           | Date   | Time   | Rate  | Acc.     |
| Mo-Day                | (inches) | (inches) | Mo-Day                | of Day | (in/hr)                 | (inches)                       | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF NOVEMBER     |          |          |                       |        | 4 - 5, 1974 (CONTINUED) |                                |        |        |       |          |
|                       |          |          |                       |        |                         |                                | 11- 4  | 2037   | 2.150 | 0.1484   |
|                       |          |          |                       |        |                         |                                |        | 2400   | 1.070 | 0.1773   |

NOTES:    To convert runoff in CFS to IN/HR, multiply by 0.00530300.



## STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 16.70 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | STILLWATER, OKLAHOMA WATERSHED W-1 |       |   |       |         |       |          |       |        |       |        |        |        |      |
|---|---|-------------------|-------|--------|-------|------------------------------------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|--------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                                | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |        |        |      |
| 1974  | P | 0.55              | 2.55  | 4.41   | 3.54  | 4.72                               | 2.74  | 0.65                                      | 7.21  | 8.95    | 5.78  | 5.18     | 2.22  | 48.50  |       |        |        |        |      |
|   | Q | 0.388             | 0.080 | 3.786  | 0.932 | 1.278                              | 2.065 | 0.0                                       | 0.426 | 6.612   | 4.500 | 6.178    | 1.665 | 27.911 |       |        |        |        |      |
| STA AV  | P | 0.61              | 1.08  | 1.95   | 2.68  | 4.57                               | 3.93  | 4.01                                      | 2.99  | 4.40    | 2.71  | 1.74     | 1.23  | 31.90  |       |        |        |        |      |
|   | Q | 0.145             | 0.283 | 0.890  | 0.968 | 1.516                              | 0.931 | 0.541                                     | 0.244 | 0.858   | 0.788 | 0.692    | 0.384 | 8.240  |       |        |        |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                                    |       |   |       |         |       |          |       |        |       |        |        |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                            |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |        | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date                               | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.   | Date   | Vol. |
| 1974  |   | 9-19              | 3.837 | 9-19   | 2.088 | 9-19                               | 2.883 | 9-19                                      | 3.742 | 9-19    | 3.943 | 11- 2    | 4.439 | 11- 2  | 5.720 | 10-28  | 10.140 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                                    |       |   |       |         |       |          |       |        |       |        |        |        |      |
|   |   | 4-18              | 6.990 | 8- 8   | 3.516 | 8- 8                               | 3.812 | 7-15                                      | 3.963 | 10- 2   | 4.519 | 7-14     | 5.185 | 11- 2  | 5.720 | 10-28  | 10.140 |        |      |
|   |   | 1957              |       | 1973   |       | 1973                               |       | 1951                                      |       | 1959    |       | 1951     |       | 1974   |       | 1974   |        |        |      |

NOTES: Watershed conditions: All native grass pasture located in region (R-80) of the Central Rolling Red Prairies land resource area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. STA AV precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1974. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in Sta AV. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

| 1974 DAILY PRECIPITATION (inches)  |      |       |      |      |      |      |      |      |      |      |      |      |     |
|------------------------------------|------|-------|------|------|------|------|------|------|------|------|------|------|-----|
| STILLWATER, OKLAHOMA WATERSHED W-1 |      |       |      |      |      |      |      |      |      |      |      |      |     |
| Day                                | Jan  | Feb   | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |     |
| 1                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.86 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 2                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.10 | 0.0  | 1.65 | 0.0  | 0.0 |
| 3                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.10 | 0.0  | 0.0 |
| 4                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.22 | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 5                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 6                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 1.71 | 0.0  | 0.10 | 0.0  | 0.45 | 0.0  | 0.30 | 0.0 |
| 7                                  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0 |
| 8                                  | 0.0  | 0.0   | 0.38 | 0.0  | 0.0  | 0.48 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 9                                  | 0.41 | 0.0   | 1.38 | 0.0  | 0.0  | 0.0  | 0.0  | 4.90 | 0.0  | 0.0  | 0.15 | 0.0  | 0.0 |
| 10                                 | 0.0  | 0.0   | 2.52 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0 |
| 11                                 | 0.0  | 0.0   | 0.0  | 1.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | 0.0 |
| 12                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0 |
| 13                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0 |
| 14                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.05 | 0.0  | 0.15 | 0.0  | 0.0  | 0.0 |
| 15                                 | 0.0  | 0.58  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  | 0.0 |
| 16                                 | 0.0  | 0.05  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0 |
| 17                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 18                                 | 0.0  | 0.57  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 19                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 4.70 | 0.0  | 0.0  | 0.0  | 0.0 |
| 20                                 | 0.0  | 0.30  | 0.13 | 1.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 21                                 | 0.0  | 1.05H | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 22                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 23                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 24                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.78 | 0.0  | 0.0  | 0.0  | 0.85 | 0.0  | 0.0  | 0.0  | 0.0 |
| 25                                 | 0.0  | 0.0   | 0.0  | 0.0  | 1.19 | 0.0  | 0.43 | 0.0  | 0.0  | 0.45 | 0.0  | 0.0  | 0.0 |
| 26                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 | 0.0  | 0.07 | 0.0 |
| 27                                 | 0.09 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 28                                 | 0.05 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.13 | 0.0  | 0.0  | 0.0 |
| 29                                 | 0.0  | 0.0   | 0.0  | 1.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 30                                 | 0.0  | 0.0   | 0.0  | 0.18 | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  | 2.70 | 0.0  | 0.85 | 0.0 |
| 31                                 | 0.0  | 0.0   | 0.0  | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0 |
| TOTAL                              | 0.55 | 2.55  | 4.41 | 3.54 | 4.72 | 2.74 | 0.65 | 7.21 | 8.95 | 5.78 | 5.18 | 2.22 |     |
| STA AV                             | 0.61 | 1.08  | 1.95 | 2.68 | 4.57 | 3.93 | 4.01 | 2.99 | 4.40 | 2.71 | 1.74 | 1.23 |     |

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV based on 24 yr (1951-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-1 |        |        |        |        |        |        |       |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0    | 0.0    | 0.560  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.007  | 0.0    |
| 2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.053  | 0.0    | 0.0   | 0.0    | 1.566  | 0.0    | 1.382  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 2.497  | 0.0    |
| 4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.179  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.010  | 0.0    |
| 6  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.709  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.016  |
| 7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.343  | 0.0   | 0.0    | 0.0    | 0.0    | 0.021  | 0.005  |
| 8  | 0.0    | 0.0    | 0.004  | 0.0    | 0.0    | 0.392  | 0.0   | 0.0    | 0.0    | 0.0    | 0.010  | 0.0    |
| 9  | 0.0    | 0.0    | 0.715  | 0.0    | 0.0    | 0.005  | 0.0   | 0.260  | 0.0    | 0.0    | 0.066  | 0.0    |
| 10   | 0.0    | 0.0    | 1.886  | 0.0    | 0.0    | 0.0    | 0.0   | 0.002  | 0.0    | 0.0    | 0.142  | 0.288  |
| 11   | 0.0    | 0.0    | 0.043  | 0.154  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.019  | 0.244  |
| 12   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  | 0.028  |
| 13   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.007  |
| 14   | 0.081  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.002  | 0.0    | 0.0    |
| 15   | 0.128  | 0.047  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16   | 0.046  | 0.009  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.004  | 0.0    | 0.0    | 0.0    | 0.0    |
| 17   | 0.012  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18   | 0.005  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 2.773  | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.0    | 0.0    | 0.255  | 0.0    | 0.0    | 0.0   | 0.0    | 0.009  | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.0    | 0.007  | 0.002  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.031  | 0.0    | 0.0    | 0.0    | 0.0    |
| 24   | 0.0    | 0.0    | 0.0    | 0.0    | 0.004  | 0.0    | 0.0   | 0.0    | 0.273  | 0.001  | 0.0    | 0.0    |
| 25   | 0.0    | 0.0    | 0.0    | 0.0    | 0.265  | 0.0    | 0.0   | 0.0    | 0.018  | 0.100  | 0.0    | 0.0    |
| 26   | 0.0    | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    | 0.0   | 0.0    | 0.0    | 0.002  | 0.0    | 0.0    |
| 27   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.830  | 0.0    | 0.0    |
| 29   | 0.0    |        | 0.0    | 0.027  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.020  | 0.0    | 0.0    |
| 30   | 0.0    |        | 0.0    | 0.215  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 2.099  | 0.0    | 0.317  |
| 31   | 0.0    |        | 0.0    |        | 0.013  |        | 0.0   | 0.0    |        | 0.103  |        | 0.263  |
| MEAN   | 0.0088 | 0.0020 | 0.0857 | 0.0218 | 0.0289 | 0.0483 | 0.0   | 0.0096 | 0.1546 | 0.1019 | 0.1445 | 0.0377 |
| INCHES   | 0.388  | 0.080  | 3.786  | 0.932  | 1.278  | 2.065  | 0.0   | 0.426  | 6.612  | 4.500  | 6.178  | 1.665  |
| STA AV   | 0.145  | 0.283  | 0.890  | 0.968  | 1.516  | 0.931  | 0.541 | 0.244  | 0.858  | 0.788  | 0.692  | 0.384  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425249.

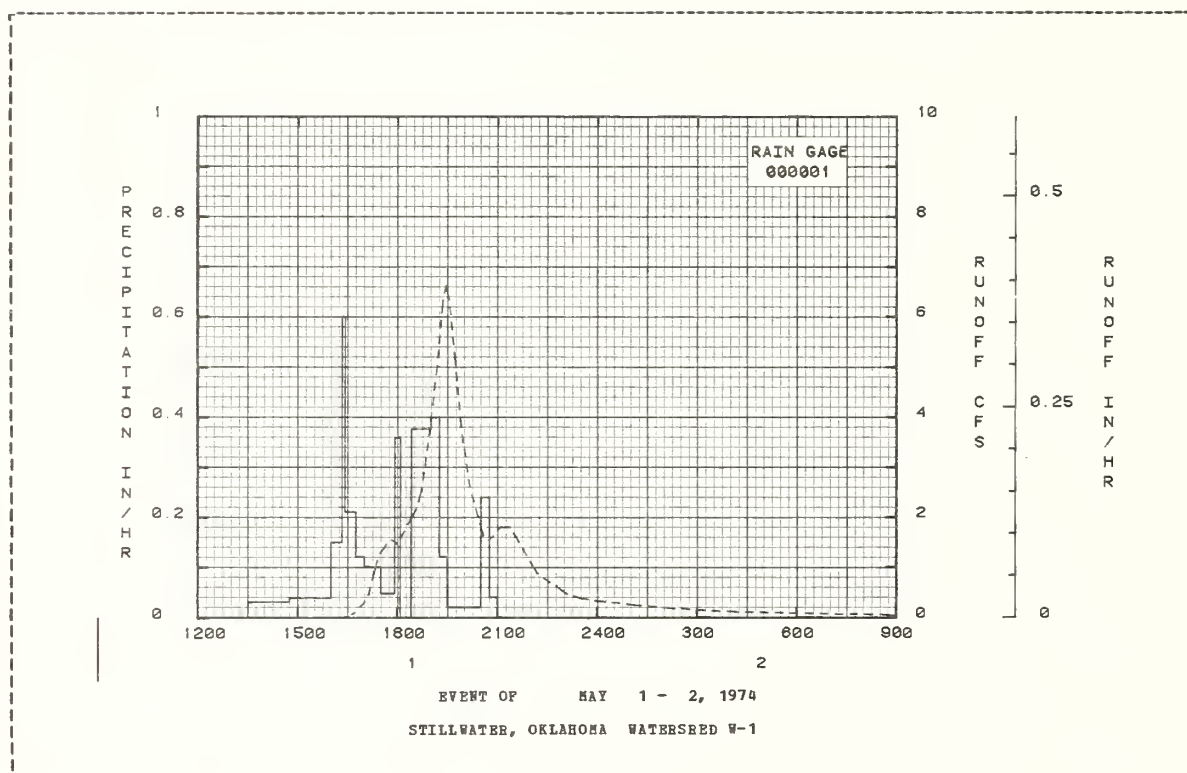
| 1974 SELECTED RUNOFF EVENT STILLWATER, OKLAHOMA WATERSHED W-1                          |                  |          |          |                   |           |          |        |        |       |          |  |
|--|------------------|----------|----------|-------------------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS  |                  |          | RAINFALL |                   |           |          |        |        |       |          |  |
| Date   | Rainfall         | Runoff   | Date     | Time              | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day   | (inches)         | (inches) | Mo-Day   | of Day            | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF MAY 1 - 2, 1974   |                  |          |          |                   |           |          |        |        |       |          |  |
| 5- 1   | RG 000001<br>0.0 | 0.0      | 5- 1     | RG 000001<br>1330 | 0.0       | 0.0      | 5- 1   | 1604   | 0.0   | 0.0      |  |
|  |                  |          |          | 1445              | 0.0320    | 0.04     |        | 1620   | 0.0   | 0.0      |  |
|  |                  |          |          | 1600              | 0.0400    | 0.09     |        | 1625   | 0.007 | 0.0      |  |
|  |                  |          |          | 1620              | 0.1500    | 0.14     |        | 1632   | 0.020 | 0.0001   |  |
|  |                  |          |          | 1625              | 0.6000    | 0.19     |        | 1638   | 0.067 | 0.0003   |  |
| WATERSHED CONDITIONS:<br>100% of area in native<br>grass pasture in fair<br>condition. |                  |          |          | 1645              | 0.2100    | 0.26     |        | 1642   | 0.096 | 0.0006   |  |
|  |                  |          |          | 1700              | 0.1200    | 0.29     |        | 1655   | 0.241 | 0.0028   |  |
|  |                  |          |          | 1730              | 0.1000    | 0.34     |        | 1701   | 0.320 | 0.0045   |  |
|  |                  |          |          | 1755              | 0.0480    | 0.36     |        | 1708   | 0.461 | 0.0072   |  |
|  |                  |          |          | 1805              | 0.3600    | 0.42     |        | 1717   | 0.862 | 0.0131   |  |
|  |                  |          |          | 1825              | 0.0       | 0.42     |        | 1724   | 1.143 | 0.0200   |  |
|  |                  |          |          | 1900              | 0.3771    | 0.64     |        | 1730   | 1.303 | 0.0273   |  |
|  |                  |          |          | 1915              | 0.4000    | 0.74     |        | 1740   | 1.463 | 0.0410   |  |
|  |                  |          |          | 1930              | 0.1200    | 0.77     |        | 1750   | 1.544 | 0.0559   |  |
|  |                  |          |          | 2030              | 0.0200    | 0.79     |        | 1800   | 1.463 | 0.0708   |  |
|  |                  |          |          | 2045              | 0.2400    | 0.85     |        | 1824   | 1.970 | 0.1115   |  |
|  |                  |          |          | 2100              | 0.0400    | 0.86     |        | 1834   | 2.172 | 0.1320   |  |
|  |                  |          |          |                   |           |          |        | 1844   | 2.593 | 0.1556   |  |
|  |                  |          |          |                   |           |          |        | 1858   | 3.789 | 0.1998   |  |
|  |                  |          |          |                   |           |          |        | 1911   | 5.035 | 0.2566   |  |
|  |                  |          |          |                   |           |          |        | 1921   | 6.332 | 0.3128   |  |
|  |                  |          |          |                   |           |          |        | 1926   | 6.618 | 0.3448   |  |
|  |                  |          |          |                   |           |          |        | 1932   | 6.332 | 0.3833   |  |
|  |                  |          |          |                   |           |          |        | 1944   | 5.035 | 0.4508   |  |
|  |                  |          |          |                   |           |          |        | 1954   | 3.789 | 0.4945   |  |
|  |                  |          |          |                   |           |          |        | 2010   | 2.593 | 0.5450   |  |
|  |                  |          |          |                   |           |          |        | 2035   | 1.623 | 0.5972   |  |
|  |                  |          |          |                   |           |          |        | 2044   | 1.544 | 0.6113   |  |
|  |                  |          |          |                   |           |          |        | 2053   | 1.623 | 0.6254   |  |
|  |                  |          |          |                   |           |          |        | 2104   | 1.802 | 0.6441   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



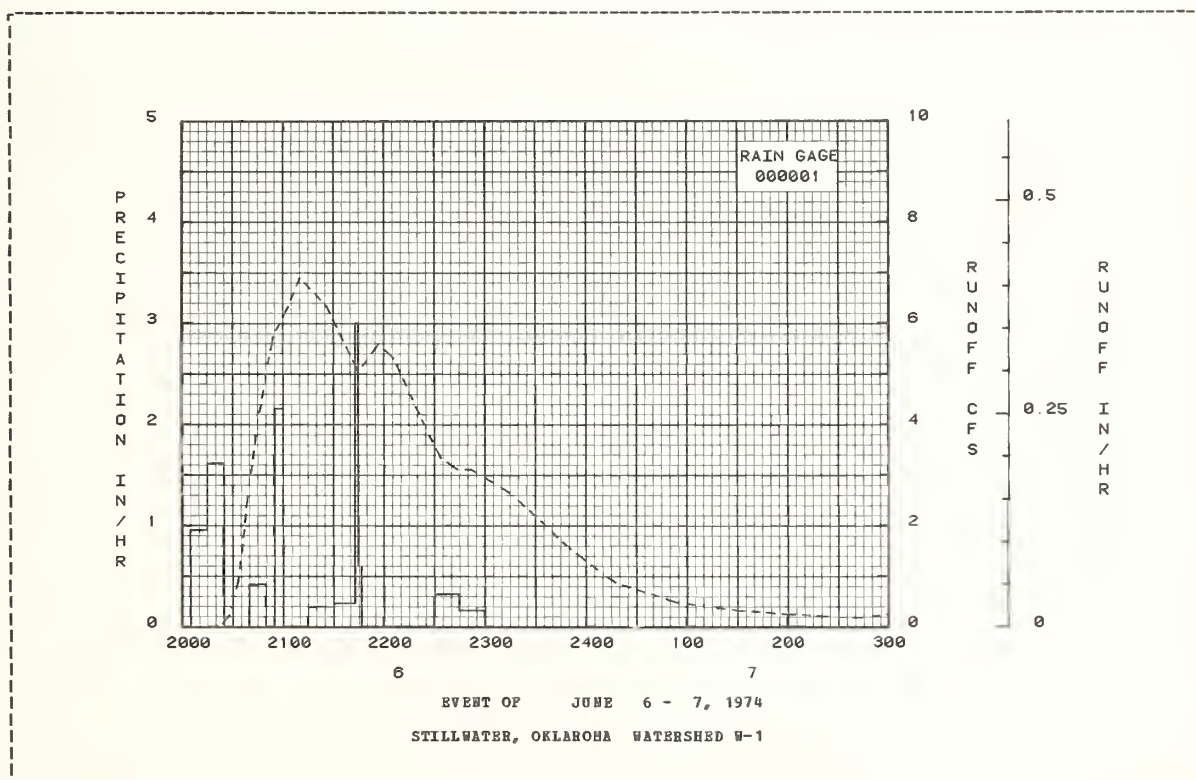
| 1974 SELECTED RUNOFF EVENT           |          |          | STILLWATER, OKLAHOMA WATERSHED W-1 |        |           |          |        |        |       |          |
|--------------------------------------|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                |          |          | RAINFALL                           |        |           |          | RUNOFF |        |       |          |
| Date                                 | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                               | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MAY 1 - 2, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |       |          |
|                                      |          |          |                                    |        |           |          | 5- 1   | 2122   | 1.802 | 0.6762   |
|                                      |          |          |                                    |        |           |          |        | 2132   | 1.623 | 0.6931   |
|                                      |          |          |                                    |        |           |          |        | 2212   | 0.862 | 0.7423   |
|                                      |          |          |                                    |        |           |          |        | 2306   | 0.461 | 0.7777   |
|                                      |          |          |                                    |        |           |          |        | 2330   | 0.381 | 0.7877   |
|                                      |          |          |                                    |        |           |          |        | 2400   | 0.320 | 0.7981   |
|                                      |          |          |                                    |        |           |          | 5- 2   | 106    | 0.241 | 0.8164   |
|                                      |          |          |                                    |        |           |          |        | 220    | 0.165 | 0.8313   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.059385.



| 1974 SELECTED RUNOFF EVENT |                   |          | STILLWATER, OKLAHOMA WATERSHED W-1 |           |           |          |        |        |       |          |
|----------------------------|-------------------|----------|------------------------------------|-----------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS      |                   |          | RAINFALL                           |           |           | RUNOFF   |        |        |       |          |
| Date                       | Rainfall          | Runoff   | Date                               | Time      | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                     | (inches)          | (inches) | Mo-Day                             | of Day    | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF JUNE 6 - 7, 1974  |                   |          |                                    |           |           |          |        |        |       |          |
| 6- 6                       | RG 000001<br>0.69 | 0.183    | 6- 6                               | RG 000001 |           |          | 6- 6   | 2008   | 0.0   | 0.0      |
|                            |                   |          |                                    | 2005      | 0.0       | 0.0      |        | 2017   | 0.007 | 0.0      |
|                            |                   |          |                                    | 2015      | 0.9600    | 0.16     |        | 2021   | 0.020 | 0.0001   |
|                            |                   |          |                                    | 2025      | 1.6200    | 0.43     |        | 2024   | 0.067 | 0.0002   |
|                            |                   |          |                                    | 2040      | 0.0       | 0.43     |        | 2028   | 0.241 | 0.0008   |
|                            |                   |          |                                    | 2050      | 0.4200    | 0.50     |        |        |       |          |
|                            |                   |          |                                    | 2055      | 0.0       | 0.50     |        | 2030   | 0.461 | 0.0015   |
|                            |                   |          |                                    | 2100      | 2.1601    | 0.68     |        | 2033   | 0.862 | 0.0034   |
|                            |                   |          |                                    | 2115      | 0.0       | 0.68     |        | 2036   | 1.623 | 0.0071   |
|                            |                   |          |                                    | 2130      | 0.2000    | 0.73     |        | 2039   | 2.593 | 0.0134   |
|                            |                   |          |                                    | 2143      | 0.2308    | 0.78     |        | 2044   | 3.789 | 0.0292   |
|                            |                   |          |                                    | 2145      | 2.9997    | 0.88     |        | 2050   | 5.035 | 0.0554   |
|                            |                   |          |                                    | 2147      | 0.6001    | 0.90     |        | 2054   | 5.725 | 0.0767   |
|                            |                   |          |                                    | 2230      | 0.0       | 0.90     |        | 2103   | 6.332 | 0.1304   |
|                            |                   |          |                                    | 2245      | 0.3200    | 0.98     |        | 2110   | 6.904 | 0.1762   |
|                            |                   |          |                                    | 2300      | 0.1600    | 1.02     |        | 2126   | 6.332 | 0.2810   |
|                            |                   |          |                                    |           |           |          |        | 2145   | 5.035 | 0.3879   |
|                            |                   |          |                                    |           |           |          |        | 2157   | 5.591 | 0.4510   |
|                            |                   |          |                                    |           |           |          |        | 2206   | 5.304 | 0.4995   |
|                            |                   |          |                                    |           |           |          |        | 2227   | 3.789 | 0.5941   |
|                            |                   |          |                                    |           |           |          |        | 2234   | 3.334 | 0.6187   |
|                            |                   |          |                                    |           |           |          |        | 2244   | 3.098 | 0.6505   |
|                            |                   |          |                                    |           |           |          |        | 2252   | 3.098 | 0.6751   |
|                            |                   |          |                                    |           |           |          |        | 2306   | 2.829 | 0.7161   |
|                            |                   |          |                                    |           |           |          |        | 2317   | 2.593 | 0.7457   |
|                            |                   |          |                                    |           |           |          |        | 2337   | 1.970 | 0.7908   |
|                            |                   |          |                                    |           |           |          |        | 2348   | 1.623 | 0.8104   |
|                            |                   |          |                                    |           |           |          |        | 2400   | 1.303 | 0.8278   |
|                            |                   |          |                                    |           |           |          | 6- 7   | 18     | 0.862 | 0.8471   |
|                            |                   |          |                                    |           |           |          |        | 56     | 0.461 | 0.8719   |
|                            |                   |          |                                    |           |           |          |        | 130    | 0.320 | 0.8851   |
|                            |                   |          |                                    |           |           |          |        | 200    | 0.241 | 0.8934   |
|                            |                   |          |                                    |           |           |          |        | 220    | 0.205 | 0.8978   |
|                            |                   |          |                                    |           |           |          |        | 230    | 0.184 | 0.8998   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. W. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 92.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               |            |             |             |           |       |           |       | STILLWATER, OKLAHOMA WATERSHED W-3 |       |           |       |  |  |  |  |  |  |  |  |  |  |
|---|---|------------------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|-----------|-------|-----------|-------|------------------------------------|-------|-----------|-------|--|--|--|--|--|--|--|--|--|--|
|   |   | Jan                    | Feb         | Mar          | Apr          | May           | Jun        | Jul         | Aug         | Sep       | Oct   | Nov       | Dec   | Annual                             |       |           |       |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 0.60                   | 2.42        | 4.00         | 3.12         | 4.37          | 2.77       | 0.69        | 6.52        | 8.92      | 5.67  | 4.83      | 2.23  | 46.14                              |       |           |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.074                  | 1.488       | 3.467        | 0.723        | 0.898         | 1.523      | 0.0         | 0.080       | 4.978     | 3.401 | 4.444     | 1.176 | 22.252                             |       |           |       |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 0.61                   | 1.08        | 1.95         | 2.59         | 4.48          | 3.87       | 3.96        | 2.97        | 4.21      | 2.65  | 1.70      | 1.21  | 31.30                              |       |           |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.055                  | 0.224       | 0.693        | 0.754        | 1.296         | 0.742      | 0.447       | 0.069       | 0.735     | 0.640 | 0.443     | 0.233 | 6.331                              |       |           |       |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |            |             |             |           |       |           |       |                                    |       |           |       |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date |           |       |           |       |                                    |       |           |       |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 9-19                   | 2.975       | 9-19         | 1.811        | 9-19          | 2.483      | 9-19        | 3.062       | 9-19      | 3.196 | 3-9       | 3.322 | 11-2                               | 4.175 | 10-27     | 7.603 |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |            |             |             |           |       |           |       |                                    |       |           |       |  |  |  |  |  |  |  |  |  |  |
|   |   | 7-15 1951              | 4.739       | 7-15 1951    | 2.896        | 7-15 1951     | 3.486      | 7-15 1951   | 3.796       | 10-2 1959 | 4.957 | 10-1 1959 | 5.185 | 10-1 1959                          | 6.083 | 9-30 1959 | 8.143 |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The hay meadow produced 1.14 tons per acre, approximately 0.5 ton per acre less than in 1971. The pasture was grazed using normal procedures for the year. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV based on 24 yr (1951-74) record period. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

| 1974   |      | DAILY PRECIPITATION (inches) |      |      |      |      | STILLWATER, OKLAHOMA WATERSHED W-3 |      |      |      |      |      |  |  |
|--------|------|------------------------------|------|------|------|------|------------------------------------|------|------|------|------|------|--|--|
| Day    | Jan  | Feb                          | Mar  | Apr  | May  | Jun  | Jul                                | Aug  | Sep  | Oct  | Nov  | Dec  |  |  |
| 1      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.87 | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 2      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 2.95 | 0.0  | 1.59 | 0.0  |  |  |
| 3      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 2.86 | 0.0  |  |  |
| 4      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.20 | 0.13                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 5      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 6      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 1.76 | 0.0                                | 0.10 | 0.0  | 0.50 | 0.0  | 0.38 |  |  |
| 7      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.34 | 0.0                                | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  |  |  |
| 8      | 0.0  | 0.0                          | 0.35 | 0.0  | 0.0  | 0.47 | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 9      | 0.45 | 0.0                          | 1.27 | 0.0  | 0.0  | 0.0  | 0.0                                | 4.57 | 0.0  | 0.0  | 0.16 | 0.0  |  |  |
| 10     | 0.0  | 0.0                          | 2.23 | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.08 | 0.65 |  |  |
| 11     | 0.0  | 0.0                          | 0.0  | 1.05 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 |  |  |
| 12     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 13     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  |  |  |
| 14     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.20 | 0.0  | 0.0                                | 0.05 | 0.0  | 0.19 | 0.0  | 0.0  |  |  |
| 15     | 0.0  | 0.53                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.08                               | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  |  |  |
| 16     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.35 | 0.08 | 0.0  | 0.0  | 0.0  |  |  |
| 17     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 18     | 0.0  | 0.55                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 19     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 4.85 | 0.0  | 0.0  | 0.0  |  |  |
| 20     | 0.0  | 0.35                         | 0.15 | 0.93 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 21     | 0.0  | 0.99                         | 0.0  | 0.0  | 0.12 | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 22     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.35 | 0.0  | 0.0                                | 0.50 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 23     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.25 | 0.0  | 0.0                                | 0.58 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.65 | 0.0  | 0.0                                | 0.0  | 0.77 | 0.0  | 0.0  | 0.0  |  |  |
| 25     | 0.0  | 0.0                          | 0.0  | 0.0  | 1.17 | 0.0  | 0.48                               | 0.0  | 0.0  | 0.42 | 0.0  | 0.0  |  |  |
| 26     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.65 | 0.0  | 0.05 |  |  |
| 27     | 0.09 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 28     | 0.06 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 1.14 | 0.0  | 0.0  |  |  |
| 29     | 0.0  | 0.0                          | 0.0  | 0.97 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 30     | 0.0  | 0.0                          | 0.0  | 0.17 | 0.30 | 0.0  | 0.0                                | 0.0  | 0.0  | 2.50 | 0.0  | 0.78 |  |  |
| 31     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.46 | 0.0  | 0.0                                | 0.0  | 0.0  | 0.07 | 0.0  | 0.17 |  |  |
| TOTAL  | 0.60 | 2.42                         | 4.00 | 3.12 | 4.37 | 2.77 | 0.69                               | 6.52 | 8.92 | 5.67 | 4.83 | 2.23 |  |  |
| STA AV | 0.61 | 1.08                         | 1.95 | 2.59 | 4.48 | 3.87 | 3.96                               | 2.97 | 4.21 | 2.65 | 1.70 | 1.21 |  |  |

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV based on 24 yr (1951-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-3 |        |        |        |        |        |        |       |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0    | 0.0    | 2.445  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.513  | 0.0    | 0.0   | 0.0    | 5.921  | 0.0    | 5.236  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 10.246 | 0.0    |
| 4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.907  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.355  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.851  | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    |
| 8  | 0.0    | 0.0    | 0.005  | 0.0    | 0.0    | 1.642  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9  | 0.0    | 0.0    | 3.138  | 0.0    | 0.0    | 0.037  | 0.0   | 0.306  | 0.0    | 0.0    | 0.227  | 0.0    |
| 10   | 0.0    | 0.0    | 9.836  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.558  | 0.864  |
| 11   | 0.0    | 0.0    | 0.421  | 0.758  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 1.205  |
| 12   | 0.005  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.033  |
| 13   | 0.065  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14   | 0.217  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15   | 0.0    | 0.010  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18   | 0.0    | 0.788  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | 0.287  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 12.358 | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.005  | 0.0    | 1.037  | 0.0    | 0.0    | 0.0   | 0.0    | 0.698  | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 4.425  | 0.0    | 0.134  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.276  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.004  | 0.0    | 0.0    | 0.0    | 0.0    |
| 24   | 0.0    | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    | 0.0   | 0.0    | 0.740  | 0.0 T  | 0.0    | 0.0    |
| 25   | 0.0    | 0.0    | 0.0    | 0.0    | 0.004  | 0.0    | 0.0   | 0.0    | 0.126  | 0.140  | 0.0    | 0.0    |
| 26   | 0.0    | 0.0    | 0.0    | 0.0    | 0.500  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 3.240  | 0.0    | 0.0    |
| 29   | 0.0    | 0.0    | 0.0    | 0.017  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.108  | 0.0    | 0.0    |
| 30   | 0.0    | 0.0    | 0.0    | 0.850  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 9.099  | 0.0    | 1.112  |
| 31   | 0.0    | 0.0    | 0.0    | 0.006  | 0.006  | 0.0    | 0.0   | 0.0    | 0.0    | 0.560  | 0.0    | 1.330  |
| MEAN   | 0.0093 | 0.2054 | 0.4322 | 0.0932 | 0.1119 | 0.1962 | 0.0   | 0.0100 | 0.6414 | 0.4241 | 0.5725 | 0.1466 |
| INCRS  | 0.074  | 1.488  | 3.467  | 0.723  | 0.898  | 1.523  | 0.0   | 0.080  | 4.978  | 3.401  | 4.444  | 1.176  |
| STA AV   | 0.055  | 0.224  | 0.693  | 0.754  | 1.296  | 0.742  | 0.447 | 0.069  | 0.735  | 0.640  | 0.443  | 0.233  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

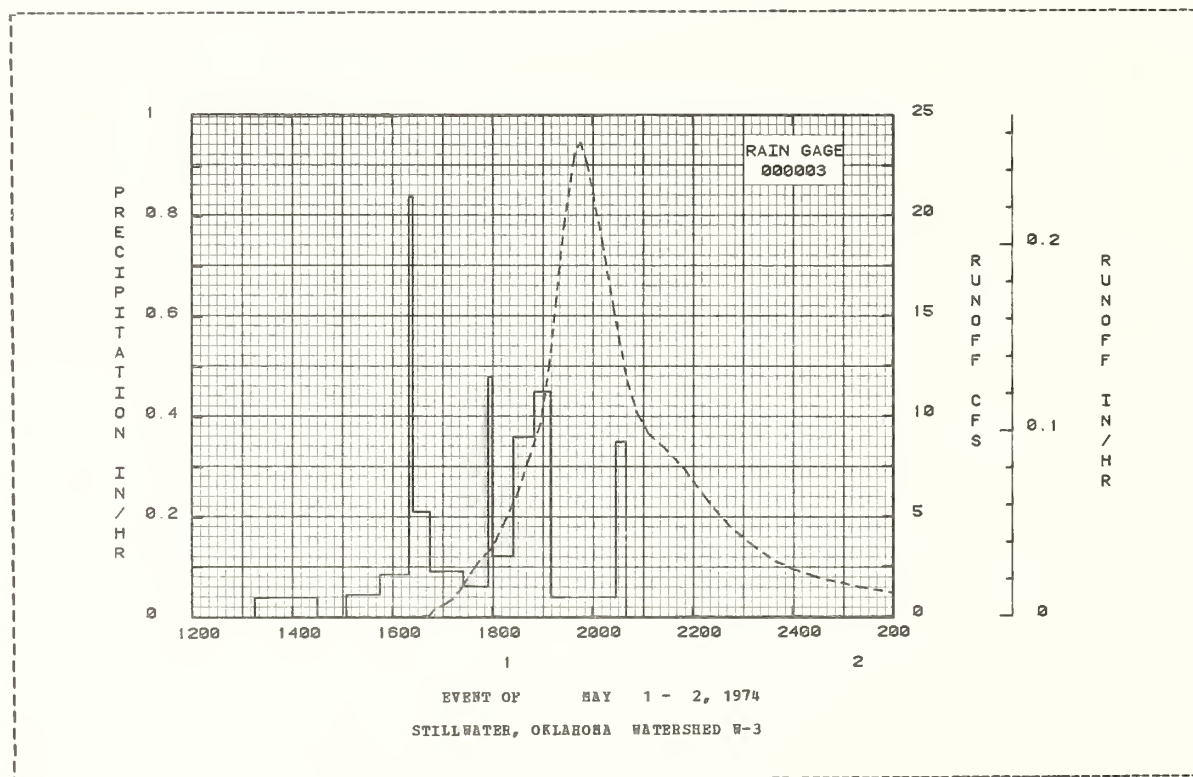
| 1974 SELECTED RUNOFF EVENT   |          |          | STILLWATER, OKLAHOMA WATERSHED W-3 |        |           |          |        |        |        |          |  |
|--|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL                           |        |           |          | RUNOFF |        |        |          |  |
| Date   | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF MAY 1 - 2, 1974   |          |          |                                    |        |           |          |        |        |        |          |  |
| RG 000003  |          |          | RG 000003                          |        |           |          |        |        |        |          |  |
| 5- 1   | 0.0      | 0.000    | 5- 1                               | 1315   | 0.0       | 0.0      | 5- 1   | 1430   | 0.002  | 0.0      |  |
|  |          |          |                                    | 1430   | 0.0400    | 0.05     |        | 1628   | 0.025  | 0.0003   |  |
|  |          |          |                                    | 1505   | 0.0       | 0.05     |        | 1644   | 0.067  | 0.0004   |  |
|  |          |          |                                    | 1545   | 0.0450    | 0.08     |        | 1650   | 0.379  | 0.0007   |  |
|  |          |          |                                    | 1620   | 0.0857    | 0.13     |        | 1700   | 0.584  | 0.0015   |  |
| WATERSHED CONDITIONS:<br>100% of area in native<br>grass; 32% in hay meadow in<br>good condition, 46% in pas-<br>ture in fair condition, and<br>22% in pasture in poor<br>condition. |          |          |                                    | 1625   | 0.8400    | 0.20     |        | 1712   | 0.919  | 0.0032   |  |
|  |          |          |                                    | 1645   | 0.2100    | 0.27     |        | 1721   | 1.360  | 0.0050   |  |
|  |          |          |                                    | 1725   | 0.0900    | 0.33     |        | 1729   | 1.876  | 0.0073   |  |
|  |          |          |                                    | 1755   | 0.0600    | 0.36     |        | 1738   | 2.469  | 0.0108   |  |
|  |          |          |                                    | 1800   | 0.4800    | 0.40     |        | 1744   | 2.795  | 0.0137   |  |
|  |          |          |                                    | 1825   | 0.1200    | 0.45     |        | 1758   | 3.378  | 0.0214   |  |
|  |          |          |                                    | 1850   | 0.3600    | 0.60     |        | 1804   | 3.822  | 0.0253   |  |
|  |          |          |                                    | 1910   | 0.4500    | 0.75     |        | 1817   | 4.979  | 0.0356   |  |
|  |          |          |                                    | 2028   | 0.0385    | 0.80     |        | 1830   | 6.143  | 0.0486   |  |
|  |          |          |                                    | 2040   | 0.3500    | 0.87     |        | 1843   | 7.807  | 0.0649   |  |
|  |          |          |                                    |        |           |          | 1858   | 9.658  | 0.0884 |          |  |
|  |          |          |                                    |        |           |          | 1908   | 12.493 | 0.1083 |          |  |
|  |          |          |                                    |        |           |          | 1917   | 15.973 | 0.1313 |          |  |
|  |          |          |                                    |        |           |          | 1926   | 19.521 | 0.1600 |          |  |
|  |          |          |                                    |        |           |          | 1939   | 23.113 | 0.2098 |          |  |
|  |          |          |                                    |        |           |          | 1946   | 23.666 | 0.2392 |          |  |
|  |          |          |                                    |        |           |          | 1954   | 22.597 | 0.2725 |          |  |
|  |          |          |                                    |        |           |          | 2012   | 18.690 | 0.3392 |          |  |
|  |          |          |                                    |        |           |          | 2027   | 15.055 | 0.3847 |          |  |
|  |          |          |                                    |        |           |          | 2042   | 11.677 | 0.4207 |          |  |
|  |          |          |                                    |        |           |          | 2054   | 10.100 | 0.4442 |          |  |
|  |          |          |                                    |        |           |          | 2107   | 9.132  | 0.4667 |          |  |
|  |          |          |                                    |        |           |          | 2130   | 8.240  | 0.5025 |          |  |
|  |          |          |                                    |        |           |          | 2150   | 7.343  | 0.5305 |          |  |
|  |          |          |                                    |        |           |          | 2220   | 5.648  | 0.5656 |          |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.

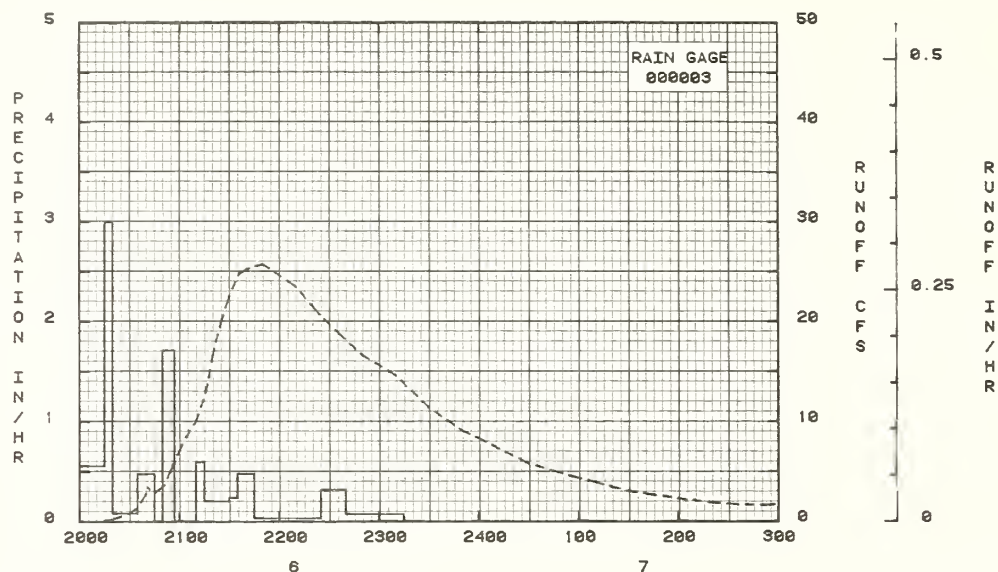


| 1974                                 | SELECTED RUNOFF EVENT |                    |                | STILLWATER, OKLAHOMA WATERSHED W-3 |                      |                  |                |                |               |                  |
|--------------------------------------|-----------------------|--------------------|----------------|------------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                |                       |                    | RAINFALL       |                                    |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day                       | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                     | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MAY 1 - 2, 1974 (CONTINUED) |                       |                    |                |                                    |                      |                  |                |                |               |                  |
|                                      |                       |                    |                |                                    |                      |                  | 5- 1           | 2245           | 4.464         | 0.5883           |
|                                      |                       |                    |                |                                    |                      |                  |                | 2310           | 3.577         | 0.6063           |
|                                      |                       |                    |                |                                    |                      |                  |                | 2340           | 2.723         | 0.6233           |
|                                      |                       |                    |                |                                    |                      |                  |                | 2400           | 2.366         | 0.6324           |
|                                      |                       |                    |                |                                    |                      |                  | 5- 2           | 32             | 1.901         | 0.6447           |
|                                      |                       |                    |                |                                    |                      |                  |                | 120            | 1.444         | 0.6591           |
|                                      |                       |                    |                |                                    |                      |                  |                | 204            | 1.150         | 0.6694           |
|                                      |                       |                    |                |                                    |                      |                  |                | 304            | 0.903         | 0.6805           |
|                                      |                       |                    |                |                                    |                      |                  |                | 430            | 0.714         | 0.6929           |
|                                      |                       |                    |                |                                    |                      |                  |                | 540            | 0.600         | 0.7012           |
|                                      |                       |                    |                |                                    |                      |                  |                | 800            | 0.495         | 0.7150           |
|                                      |                       |                    |                |                                    |                      |                  |                | 1400           | 0.396         | 0.7438           |
|                                      |                       |                    |                |                                    |                      |                  |                | 2400           | 0.0           | 0.7651           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.



| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | STILLWATER, OKLAHOMA |        |        |        |          |  | WATERSHED W-3 |  |
|--|----------|----------|-----------------------|--------|-----------|----------------------|--------|--------|--------|----------|--|---------------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL              |        |           | RUNOFF               |        |        |        |          |  |               |  |
| Date   | Rainfall | Rnoff    | Date                  | Time   | Intensity | Acc.                 | Date   | Time   | Rate   | Acc.     |  |               |  |
| Mo-Day   | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs)  | (inches) |  |               |  |
| EVENT OF JUNE 6 - 7, 1974  |          |          |                       |        |           |                      |        |        |        |          |  |               |  |
| RG 000003  |          |          | RG 000003             |        |           |                      |        |        |        |          |  |               |  |
| 6- 6   | 0.73     | 0.041    | 6- 6                  | 2000   | 0.0       | 0.0                  | 6- 6   | 2006   | 0.019  | 0.0      |  |               |  |
|  |          |          |                       | 2015   | 0.5600    | 0.14                 |        | 2018   | 0.126  | 0.0002   |  |               |  |
|  |          |          |                       | 2020   | 3.0000    | 0.39                 |        | 2025   | 0.564  | 0.0006   |  |               |  |
|  |          |          |                       | 2035   | 0.0800    | 0.41                 |        | 2030   | 0.862  | 0.0012   |  |               |  |
|  |          |          |                       | 2045   | 0.4800    | 0.49                 |        | 2034   | 1.317  | 0.0020   |  |               |  |
| WATERSHED CONDITIONS:<br>100% of area in native<br>grass; 32% in hay meadow in<br>good condition, 46% in pas-<br>ture in fair condition, and<br>22% in pasture in poor<br>condition. |          |          |                       | 2050   | 0.0       | 0.49                 |        | 2037   | 2.015  | 0.0029   |  |               |  |
|  |          |          |                       | 2057   | 1.7143    | 0.69                 |        | 2040   | 2.846  | 0.0042   |  |               |  |
|  |          |          |                       | 2110   | 0.0       | 0.69                 |        | 2041   | 3.438  | 0.0048   |  |               |  |
|  |          |          |                       | 2115   | 0.5999    | 0.74                 |        | 2042   | 3.217  | 0.0054   |  |               |  |
|  |          |          |                       | 2130   | 0.2000    | 0.79                 |        | 2046   | 2.997  | 0.0076   |  |               |  |
|  |          |          |                       | 2135   | 0.2401    | 0.81                 |        | 2051   | 3.705  | 0.0106   |  |               |  |
|  |          |          |                       | 2145   | 0.4800    | 0.89                 |        | 2054   | 4.890  | 0.0129   |  |               |  |
|  |          |          |                       | 2225   | 0.0300    | 0.91                 |        | 2057   | 6.005  | 0.0159   |  |               |  |
|  |          |          |                       | 2240   | 0.3199    | 0.99                 |        | 2100   | 7.079  | 0.0194   |  |               |  |
|  |          |          |                       | 2315   | 0.0686    | 1.03                 |        | 2104   | 8.435  | 0.0250   |  |               |  |
|  |          |          |                       | 2400   | 0.0       | 1.03                 |        | 2110   | 10.058 | 0.0349   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2116   | 13.004 | 0.0474   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2120   | 16.563 | 0.0580   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2125   | 19.981 | 0.0744   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2130   | 22.608 | 0.0935   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2136   | 24.866 | 0.1191   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2142   | 25.363 | 0.1462   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2150   | 25.753 | 0.1829   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2210   | 23.466 | 0.2714   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2224   | 20.711 | 0.3269   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2236   | 18.769 | 0.3695   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2250   | 16.600 | 0.4140   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2310   | 14.556 | 0.4699   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2330   | 11.372 | 0.5165   |  |               |  |
|  |          |          |                       |        |           |                      |        | 2350   | 9.054  | 0.5532   |  |               |  |
|  |          |          |                       | 2400   | 8.322     | 0.5688               |        |        |        |          |  |               |  |
|  |          |          |                       | 12     | 7.247     | 0.5856               |        |        |        |          |  |               |  |
|  |          |          |                       | 30     | 5.749     | 0.6066               |        |        |        |          |  |               |  |
|  |          |          |                       | 50     | 4.779     | 0.6255               |        |        |        |          |  |               |  |
|  |          |          |                       | 57     | 4.445     | 0.6313               |        |        |        |          |  |               |  |
|  |          |          |                       | 110    | 3.890     | 0.6411               |        |        |        |          |  |               |  |
|  |          |          |                       | 120    | 3.424     | 0.6476               |        |        |        |          |  |               |  |
|  |          |          |                       | 130    | 2.988     | 0.6534               |        |        |        |          |  |               |  |
|  |          |          |                       | 142    | 2.707     | 0.6595               |        |        |        |          |  |               |  |
|  |          |          |                       | 200    | 2.263     | 0.6676               |        |        |        |          |  |               |  |
|  |          |          |                       | 220    | 1.873     | 0.6750               |        |        |        |          |  |               |  |
|  |          |          |                       | 236    | 1.651     | 0.6801               |        |        |        |          |  |               |  |
|  |          |          |                       | 250    | 1.582     | 0.6841               |        |        |        |          |  |               |  |
|  |          |          |                       | 258    | 1.686     | 0.6865               |        |        |        |          |  |               |  |



EVENT OF JUNE 6 - 7, 1974  
STILLWATER, OKLAHOMA WATERSHED W-3

RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 31 min. 11 sec. N.; Long. 96 deg. 53 min. 34 sec. W.

AREA: 579.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |              |       |              |       | RIESEL (WACO), TEXAS                      |       |              |       | WATERSHED C  |       |             |       |              |       |        |      |
|---|---|-------------------|-------|--------------|-------|--------------|-------|---|-------|--------------|-------|--------------|-------|-------------|-------|--------------|-------|--------|------|
|   |   | Jan               | Feb   | Mar          | Apr   | May          | Jun   | Jul                                       | Aug   | Sep          | Oct   | Nov          | Dec   | Annual      |       |              |       |        |      |
| 1974  | P | 2.56              | 1.30  | 1.47         | 4.37  | 2.11         | 0.85  | 0.61                                      | 7.54  | 5.99         | 7.57  | 4.48         | 1.77  | 40.62       |       |              |       |        |      |
|   | Q | 0.742             | 0.252 | 0.002        | 1.508 | 0.202        | 0.0   | 0.0                                       | 0.482 | 1.298        | 3.914 | 1.923        | 0.324 | 10.648      |       |              |       |        |      |
| STA AV  | P | 2.01              | 2.64  | 2.22         | 3.88  | 3.83         | 3.33  | 1.81                                      | 2.68  | 3.37         | 3.42  | 3.08         | 2.38  | 34.65       |       |              |       |        |      |
|   | Q | 0.510             | 0.589 | 0.654        | 1.031 | 0.847        | 0.642 | 0.212                                     | 0.176 | 0.355        | 0.524 | 0.554        | 0.579 | 6.673       |       |              |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |              |       |              |       |   |       |              |       |              |       |             |       |              |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour       |       | 2 Hours      |       | Maximum Volume for Selected Time Interval |       | 6 Hours      |       | 12 Hours     |       | 1 Day       |       | 2 Days       |       | 8 Days |      |
|   |   | Date              | Rate  | Date         | Vol.  | Date         | Vol.  | Date                                      | Vol.  | Date         | Vol.  | Date         | Vol.  | Date        | Vol.  | Date         | Vol.  | Date   | Vol. |
| 1974  |   | 10-31             | 0.583 | 10-31        | 0.503 | 10-31        | 0.893 | 10-31                                     | 1.943 | 10-31        | 2.714 | 10-30        | 3.798 | 10-30       | 3.948 | 10-30        | 4.124 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |              |       |              |       |   |       |              |       |              |       |             |       |              |       |        |      |
|   |   | 3-29<br>1965      | 1.580 | 3-29<br>1965 | 1.500 | 3-29<br>1965 | 2.520 | 3-29<br>1965                              | 3.550 | 3-29<br>1965 | 3.800 | 3-29<br>1965 | 4.480 | 9-7<br>1942 | 4.780 | 4-19<br>1957 | 8.760 |        |      |

NOTES: Watershed conditions: 83% pasture; 9% row grain sorghum; 2% oats; 1% cotton; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY AIR TEMPERATURE (degrees F) |         |         |         |         |         |         |         |         |         |         |         |         |         | RIESEL (WACO), TEXAS WATERSHED C |  |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------------|--|
| Day                                    | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |         |                                  |  |
|  | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min |                                  |  |
| 1                                      | 35 18   | 77 43   | 77 54   | 90 63   | 76 63   | 86 65   | 94 69   | 90 70   | 91 72   | 78 55   | 72 59   | 42 26   |         |                                  |  |
| 2                                      | 38 18   | 76 57   | 78 60   | 84 54   | 76 65   | 86 64   | 95 37   | 95 71   | 92 74   | 81 57   | 75 62   | 45 30   |         |                                  |  |
| 3                                      | 35 18   | 67 41   | 81 63   | 86 58   | 85 69   | 88 68   | 95 71   | 85 68   | 92 57   | 83 59   | 79 68   | 52 32   |         |                                  |  |
| 4                                      | 29 22   | 61 38   | 82 64   | 83 47   | 86 65   | 95 69   | 95 76   | 88 69   | 70 55   | 80 58   | 80 52   | 58 36   |         |                                  |  |
| 5                                      | 37 27   | 65 39   | 80 63   | 66 39   | 84 60   | 92 72   | 92 74   | 90 71   | 74 54   | 82 59   | 58 45   | 57 41   |         |                                  |  |
| 6                                      | 47 35   | 73 44   | 80 65   | 70 43   | 67 59   | 91 75   | 96 73   | 87 72   | 75 54   | 83 62   | 64 46   | 61 49   |         |                                  |  |
| 7                                      | 59 27   | 61 34   | 80 66   | 77 47   | 75 57   | 92 75   | 97 68   | 84 69   | 78 57   | 83 60   | 67 50   | 68 43   |         |                                  |  |
| 8                                      | 52 27   | 40 25   | 81 65   | 88 48   | 78 62   | 90 77   | 95 71   | 85 70   | 82 63   | 79 67   | 53 46   | 59 39   |         |                                  |  |
| 9                                      | 65 31   | 41 27   | 81 67   | 71 45   | 83 65   | 93 67   | 95 72   | 85 72   | 84 62   | 82 59   | 52 48   | 45 24   |         |                                  |  |
| 10                                     | 33 29   | 59 35   | 77 66   | 74 49   | 86 62   | 74 62   | 95 72   | 94 74   | 77 67   | 67 61   | 59 51   | 47 27   |         |                                  |  |
| 11                                     | 37 25   | 71 34   | 80 68   | 62 46   | 72 58   | 87 63   | 95 69   | 95 72   | 81 67   | 87 62   | 68 48   | 45 36   |         |                                  |  |
| 12                                     | 39 24   | 72 35   | 85 58   | 54 40   | 82 62   | 91 71   | 94 69   | 94 74   | 87 73   | 83 60   | 65 44   | 56 37   |         |                                  |  |
| 13                                     | 34 26   | 76 44   | 73 45   | 85 64   | 86 64   | 79 62   | 92 69   | 96 75   | 78 64   | 83 60   | 60 44   | 65 39   |         |                                  |  |
| 14                                     | 48 34   | 78 56   | 67 45   | 86 49   | 85 67   | 90 69   | 97 74   | 97 73   | 64 61   | 83 60   | 69 40   | 60 40   |         |                                  |  |
| 15                                     | 62 46   | 72 52   | 69 51   | 66 48   | 84 74   | 91 67   | 99 71   | 97 73   | 67 61   | 75 48   | 52 35   | 64 37   |         |                                  |  |
| 16                                     | 58 46   | 67 39   | 69 53   | 68 47   | 90 75   | 95 71   | 93 71   | 97 73   | 79 66   | 64 44   | 56 40   | 57 35   |         |                                  |  |
| 17                                     | 64 47   | 57 34   | 67 48   | 74 46   | 88 74   | 97 71   | 94 69   | 98 72   | 85 68   | 73 46   | 54 46   | 50 32   |         |                                  |  |
| 18                                     | 78 63   | 67 36   | 79 53   | 76 51   | 89 73   | 96 72   | 93 70   | 99 73   | 83 71   | 82 52   | 65 44   | 63 37   |         |                                  |  |
| 19                                     | 73 45   | 74 43   | 80 63   | 78 58   | 89 69   | 93 72   | 94 69   | 99 75   | 82 70   | 84 58   | 64 48   | 67 38   |         |                                  |  |
| 20                                     | 48 38   | 67 44   | 78 48   | 79 61   | 89 67   | 94 70   | 96 71   | 99 74   | 85 71   | 75 51   | 80 47   | 62 39   |         |                                  |  |
| 21                                     | 62 37   | 77 51   | 65 35   | 75 67   | 85 68   | 94 72   | 99 74   | 98 70   | 87 70   | 75 52   | 67 44   | 59 36   |         |                                  |  |
| 22                                     | 74 42   | 73 34   | 51 34   | 84 64   | 84 67   | 95 71   | 102 75  | 98 72   | 72 62   | 76 50   | 73 49   | 67 41   |         |                                  |  |
| 23                                     | 73 38   | 57 35   | 68 36   | 76 55   | 88 63   | 96 72   | 104 76  | 96 70   | 74 53   | 77 53   | 77 55   | 73 52   |         |                                  |  |
| 24                                     | 45 38   | 70 33   | 61 33   | 77 57   | 88 68   | 95 66   | 104 76  | 95 71   | 64 54   | 78 60   | 72 45   | 75 63   |         |                                  |  |
| 25                                     | 48 40   | 47 24   | 37 33   | 79 55   | 88 69   | 85 59   | 97 77   | 94 71   | 69 54   | 72 61   | 54 36   | 67 34   |         |                                  |  |
| 26                                     | 50 42   | 51 29   | 47 35   | 78 58   | 90 69   | 85 58   | 100 76  | 92 72   | 61 54   | 72 55   | 58 36   | 39 34   |         |                                  |  |
| 27                                     | 68 43   | 63 29   | 65 45   | 79 58   | 83 58   | 84 58   | 98 73   | 78 71   | 78 58   | 71 53   | 61 39   | 41 36   |         |                                  |  |
| 28                                     | 65 40   | 71 49   | 75 57   | 83 62   | 80 64   | 85 60   | 100 74  | 89 70   | 84 60   | 77 54   | 62 39   | 46 40   |         |                                  |  |
| 29                                     | 57 35   |         | 81 53   | 82 68   | 90 71   | 89 65   | 100 72  | 90 71   | 76 50   | 73 61   | 67 41   | 52 46   |         |                                  |  |
| 30                                     | 65 35   |         | 83 51   | 82 68   | 93 75   | 90 64   | 102 71  | 75 68   | 75 51   | 83 69   | 41 25   | 64 52   |         |                                  |  |
| 31                                     | 71 39   |         | 88 54   |         | 90 67   |         | 91 72   | 85 72   |         | 81 64   |         | 58 44   |         |                                  |  |
| AV.                                    | 53 35   | 65 39   | 73 53   | 77 54   | 84 66   | 90 68   | 97 71   | 92 72   | 78 62   | 78 57   | 64 46   | 57 39   |         |                                  |  |
| MEAN                                   | 44.0    | 52.1    | 62.9    | 65.5    | 75.2    | 78.8    | 83.8    | 81.7    | 70.0    | 67.7    | 55.0    | 47.8    |         |                                  |  |
| STA AV                                 | 58 38   | 62 40   | 69 47   | 77 56   | 83 63   | 89 70   | 93 72   | 93 72   | 88 66   | 81 57   | 68 46   | 61 39   |         |                                  |  |

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV based on 36 yr (1939-1974) period.



| 1974 DAILY PRECIPITATION (inches) RIESEL (WACO), TEXAS WATERSHED C |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.01E | 0.0   | 0.0   | 0.0   | 1.18  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.0   | 0.0 E | 0.0   |
| 3  | 0.04E | 0.0   | 0.0   | 0.0   | 0.16E | 0.0   | 0.0   | 0.04E | 0.42  | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.29E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.56  | 0.0   |
| 5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.20  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.12E |
| 6  | 0.01E | 0.0   | 0.0   | 0.0   | 0.14E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.70  | 0.0   |
| 8  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.54  | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.01E | 0.0   | 0.10E | 0.0   | 0.0   | 0.46  | 0.0   | 0.0   | 0.36  | 0.0   | 0.02E | 0.0   |
| 10   | 0.19  | 0.0   | 0.16  | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 0.47  | 0.0   | 0.51  | 0.80  |
| 11   | 0.0   | 0.0   | 0.0 E | 1.14  | 0.0   | 0.0   | 0.07E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.07E | 0.0   | 0.0   | 0.30  | 0.0   | 0.0   | 0.44  | 0.0   | 0.0   | 0.0   |
| 13   | 0.05E | 0.0   | 0.0   | 2.59  | 0.0   | 0.0   | 0.0   | 0.0   | 0.88  | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.06E | 0.19  | 0.0   | 0.0   | 0.0   | 0.33  | 0.0   | 0.53  | 0.99  | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.09E | 0.05E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10E | 0.0   | 0.49  | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.75  | 0.0   | 0.0   | 0.0   |
| 18   | 0.91  | 0.16E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.73  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 1.08  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.21E | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.38  | 0.0   | 0.0   | 0.0   | 0.49  | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.21  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.95  | 0.0   |
| 24   | 0.29  | 0.0   | 0.22  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.17  | 0.15E | 0.24  | 0.23  |
| 25   | 0.52  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.20  | 0.0   | 0.0   | 0.0   |
| 26   | 0.30  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.06E | 2.30  | 0.05E | 0.0   | 0.0   | 0.08E |
| 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.09  | 0.0   | 0.0   | 0.0   | 0.08E |
| 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.11  | 0.0   | 0.79  | 0.0   | 0.07E |
| 29   | 0.0   | 0.0   | 0.0   | 0.12E | 0.0   | 0.0   | 0.0   | 1.26  | 0.0   | 0.0   | 0.50  | 0.07E |
| 30   | 0.0   | 0.0   | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 1.71  | 0.0   | 2.32  | 0.0   | 0.10E |
| 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.32  | 0.0   | 0.22E |
| TOTAL  | 2.56  | 1.30  | 1.47  | 4.37  | 2.11  | 0.85  | 0.61  | 7.54  | 5.99  | 7.57  | 4.48  | 1.77  |
| STA AV   | 2.01  | 2.64  | 2.22  | 3.88  | 3.83  | 3.33  | 1.81  | 2.68  | 3.37  | 3.42  | 3.08  | 2.38  |

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED C |        |        |        |        |        |       |       |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.015  | 0.0    | 0.0    | 2.467  | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 1.027  | 0.092  |
| 2  | 0.0    | 0.012  | 0.0    | 0.0    | 0.236  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.204  | 0.039  |
| 3  | 0.0    | 0.007  | 0.0    | 0.0    | 0.032  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.071  | 0.022  |
| 4  | 0.0    | 0.002  | 0.0    | 0.0    | 1.489  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 1.620  | 0.015  |
| 5  | 0.0    | 0.002  | 0.0    | 0.0    | 0.343  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.448  | 0.012  |
| 6  | 0.0    | 0.002  | 0.0    | 0.0    | 0.265  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.105  | 0.024  |
| 7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.061  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 3.362  | 0.017  |
| 8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.024  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 1.484  | 0.007  |
| 9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.005  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.341  | 0.005  |
| 10   | 0.002  | 0.0    | 0.0    | 0.0    | 0.002  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 5.636  | 3.595  |
| 11   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.949  | 2.892  |
| 12   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.170  | 0.319  |
| 13   | 0.0    | 0.0    | 0.0    | 18.091 | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.056  | 0.117  |
| 14   | 0.002  | 0.0    | 0.0    | 18.352 | 0.0    | 0.0   | 0.0   | 0.0    | 2.941  | 0.0    | 0.019  | 0.063  |
| 15   | 0.0    | 0.002  | 0.0    | 0.197  | 0.0    | 0.0   | 0.0   | 0.0    | 0.474  | 0.0    | 0.007  | 0.041  |
| 16   | 0.002  | 0.0    | 0.0    | 0.039  | 0.0    | 0.0   | 0.0   | 0.0    | 0.063  | 0.0    | 0.005  | 0.019  |
| 17   | 0.0    | 0.0    | 0.0    | 0.007  | 0.0    | 0.0   | 0.0   | 0.0    | 24.856 | 0.0    | 0.002  | 0.015  |
| 18   | 0.718  | 0.0    | 0.0    | 0.002  | 0.0    | 0.0   | 0.0   | 0.0    | 2.939  | 0.0    | 0.002  | 0.007  |
| 19   | 4.401  | 0.0    | 0.0    | 0.002  | 0.0    | 0.0   | 0.0   | 0.0    | 0.231  | 0.0    | 0.002  | 0.005  |
| 20   | 0.277  | 0.0    | 0.017  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.051  | 0.0    | 0.002  | 0.002  |
| 21   | 0.080  | 5.719  | 0.012  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.015  | 0.0    | 0.002  | 0.0    |
| 22   | 0.039  | 0.270  | 0.002  | 0.002  | 0.0    | 0.0   | 0.0   | 0.0    | 0.007  | 0.0    | 0.0    | 0.002  |
| 23   | 0.027  | 0.063  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 11.017 | 0.005  |
| 24   | 0.849  | 0.019  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 18.841 | 0.005  |
| 25   | 1.778  | 0.007  | 0.002  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 0.418  | 0.007  |
| 26   | 8.976  | 0.002  | 0.002  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 0.114  | 0.010  |
| 27   | 0.552  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.046  | 0.010  |
| 28   | 0.204  | 0.002  | 0.002  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.024  | 0.015  |
| 29   | 0.083  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.302  | 0.019  |
| 30   | 0.041  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 11.645 | 0.0    | 25.486 | 0.494  | 0.056  |
| 31   | 0.024  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.085  | 0.0    | 69.728 | 0.440  | 0.440  |
| MEAN   | 0.5825 | 0.2188 | 0.0013 | 1.2231 | 0.1588 | 0.0   | 0.0   | 0.3784 | 1.0528 | 3.0714 | 1.5591 | 0.2542 |
| INCHES   | 0.742  | 0.252  | 0.002  | 1.508  | 0.202  | 0.0   | 0.0   | 0.482  | 1.298  | 3.914  | 1.923  | 0.324  |
| STA AV   | 0.510  | 0.589  | 0.654  | 1.031  | 0.847  | 0.642 | 0.212 | 0.176  | 0.355  | 0.524  | 0.554  | 0.579  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.041108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period.

| 1974  |          |          | SELECTED RUNOFF EVENT |        |           | BIESEL (WACO), TEXAS |        |        | WATERSHED C |          |  |
|---|----------|----------|-----------------------|--------|-----------|----------------------|--------|--------|-------------|----------|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL              |        |           | RUNOFF               |        |        |             |          |  |
| Date  | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.                 | Date   | Time   | Rate        | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs)       | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974  |          |          |                       |        |           |                      |        |        |             |          |  |
| BG 000014   |          |          | BG 000014             |        |           |                      |        |        |             |          |  |
| 10-30   | 0.0      | 0.0      | 10-30                 | 915    | 0.0       | 0.0                  | 10-30  | 1340   | 0.0         | 0.0      |  |
|   |          |          |                       | 920    | 0.6000    | 0.05                 |        | 1350   | 0.0         | 0.0      |  |
|   |          |          |                       | 925    | 2.6400    | 0.27                 |        | 1400   | 0.001       | 0.0      |  |
|   |          |          |                       | 930    | 1.7999    | 0.42                 |        | 1405   | 0.002       | 0.0      |  |
|   |          |          |                       | 935    | 0.3600    | 0.45                 |        | 1410   | 0.006       | 0.0      |  |
| WATERSHED CONDITIONS:<br>83% pasture; 9% grain<br>sorghum; 2% oats; 1% cotton;<br>2% gravel and paved roads; 3%<br>other. Approx. 90% of other<br>is Johnsongrass and weeds in<br>conservation reserve, neither<br>tilled nor grazed. |          |          |                       |        |           |                      |        |        |             |          |  |
|   |          |          |                       | 1330   | 0.0       | 0.45                 |        | 1415   | 0.014       | 0.0      |  |
|   |          |          |                       | 1400   | 0.0200    | 0.46                 |        | 1420   | 0.026       | 0.0      |  |
|   |          |          |                       | 1410   | 0.1199    | 0.48                 |        | 1425   | 0.036       | 0.0      |  |
|   |          |          |                       | 1420   | 0.3601    | 0.54                 |        | 1430   | 0.058       | 0.0      |  |
|   |          |          |                       | 1425   | 0.4799    | 0.58                 |        | 1434   | 0.145       | 0.0      |  |
|   |          |          |                       | 1428   | 0.4001    | 0.60                 |        | 1436   | 0.222       | 0.0      |  |
|   |          |          |                       | 1430   | 2.0998    | 0.67                 |        | 1438   | 0.286       | 0.0001   |  |
|   |          |          |                       | 1435   | 3.4801    | 0.96                 |        | 1440   | 0.358       | 0.0001   |  |
|   |          |          |                       | 1440   | 1.0800    | 1.05                 |        | 1442   | 0.406       | 0.0001   |  |
|   |          |          |                       | 1445   | 3.8399    | 1.37                 |        | 1444   | 0.634       | 0.0001   |  |
|   |          |          |                       | 1450   | 1.2001    | 1.47                 |        | 1446   | 1.060       | 0.0002   |  |
|   |          |          |                       | 1455   | 2.5201    | 1.68                 |        | 1448   | 1.396       | 0.0002   |  |
|   |          |          |                       | 1500   | 1.7999    | 1.83                 |        | 1450   | 1.731       | 0.0003   |  |
|   |          |          |                       | 1505   | 0.3600    | 1.86                 |        | 1452   | 2.259       | 0.0004   |  |
|   |          |          |                       | 1510   | 0.0       | 1.86                 |        | 1454   | 3.019       | 0.0006   |  |
|   |          |          |                       | 1515   | 0.9600    | 1.94                 |        | 1456   | 7.177       | 0.0009   |  |
|   |          |          |                       | 1520   | 0.0       | 1.94                 |        | 1458   | 18.555      | 0.0016   |  |
|   |          |          |                       | 1530   | 0.4200    | 2.01                 |        | 1500   | 36.091      | 0.0033   |  |
|   |          |          |                       | 1545   | 0.0800    | 2.03                 |        | 1502   | 47.435      | 0.0055   |  |
|   |          |          |                       | 1550   | 0.3600    | 2.06                 |        | 1504   | 53.859      | 0.0086   |  |
|   |          |          |                       | 1600   | 0.0       | 2.06                 |        | 1506   | 57.625      | 0.0116   |  |
|   |          |          |                       | 1605   | 0.6000    | 2.11                 |        | 1508   | 60.465      | 0.0151   |  |
|   |          |          |                       | 1910   | 0.0       | 2.11                 |        | 1510   | 62.036      | 0.0184   |  |
|   |          |          |                       | 1930   | 0.0900    | 2.14                 |        | 1514   | 64.334      | 0.0256   |  |
|   |          |          |                       | 2000   | 0.0       | 2.14                 |        | 1516   | 65.035      | 0.0295   |  |
|   |          |          |                       | 2100   | 0.0400    | 2.18                 |        | 1522   | 63.638      | 0.0402   |  |
|   |          |          |                       | 2200   | 0.0500    | 2.23                 |        | 1524   | 65.271      | 0.0441   |  |
|   |          |          |                       | 2400   | 0.0       | 2.23                 |        | 1526   | 70.481      | 0.0477   |  |
|   |          |          | 10-31                 | 40     | 0.0       | 2.23                 |        | 1528   | 82.664      | 0.0524   |  |
|   |          |          |                       | 100    | 0.0900    | 2.26                 |        | 1530   | 97.777      | 0.0578   |  |
|   |          |          |                       | 130    | 0.0       | 2.26                 |        | 1532   | 124.449     | 0.0637   |  |
|   |          |          |                       | 200    | 0.0200    | 2.27                 |        | 1534   | 145.596     | 0.0719   |  |
|   |          |          |                       | 205    | 0.0       | 2.27                 |        | 1536   | 166.000     | 0.0802   |  |
|   |          |          |                       | 210    | 0.6000    | 2.32                 |        | 1540   | 208.328     | 0.1015   |  |
|   |          |          |                       | 240    | 0.0       | 2.32                 |        | 1544   | 234.124     | 0.1267   |  |
|   |          |          |                       | 245    | 0.3600    | 2.35                 |        | 1548   | 255.465     | 0.1545   |  |
|   |          |          |                       | 250    | 0.1199    | 2.36                 |        | 1554   | 266.485     | 0.1999   |  |
|   |          |          |                       | 255    | 0.7200    | 2.42                 |        | 1600   | 272.766     | 0.2468   |  |
|   |          |          |                       | 300    | 0.9600    | 2.50                 |        | 1610   | 265.656     | 0.3225   |  |
|   |          |          |                       | 305    | 0.8401    | 2.57                 |        | 1620   | 244.418     | 0.3958   |  |
|   |          |          |                       | 310    | 0.5999    | 2.62                 |        | 1630   | 215.609     | 0.4620   |  |
|   |          |          |                       | 315    | 4.4401    | 2.99                 |        | 1640   | 188.583     | 0.5188   |  |
|   |          |          |                       | 320    | 4.7999    | 3.39                 |        | 1650   | 159.519     | 0.5689   |  |
|   |          |          |                       | 325    | 0.3600    | 3.42                 |        | 1700   | 140.502     | 0.6120   |  |
|   |          |          |                       | 340    | 0.1200    | 3.45                 |        | 1710   | 125.825     | 0.6494   |  |
|   |          |          |                       | 345    | 1.0801    | 3.54                 |        | 1720   | 105.473     | 0.6827   |  |
|   |          |          |                       | 410    | 0.0960    | 3.58                 |        | 1740   | 86.665      | 0.7374   |  |
|   |          |          |                       | 415    | 0.8401    | 3.65                 |        | 1800   | 72.115      | 0.7830   |  |
|   |          |          |                       | 430    | 0.1200    | 3.68                 |        | 1820   | 59.910      | 0.8206   |  |
|   |          |          |                       | 445    | 0.0800    | 3.70                 |        | 1840   | 50.182      | 0.8519   |  |
|   |          |          |                       | 450    | 0.7200    | 3.76                 |        | 1900   | 42.790      | 0.8786   |  |
|   |          |          |                       | 455    | 1.5601    | 3.89                 |        | 1930   | 33.802      | 0.9114   |  |
|   |          |          |                       | 500    | 1.0800    | 3.98                 |        | 2000   | 27.457      | 0.9377   |  |
|   |          |          |                       | 505    | 0.4801    | 4.02                 |        | 2030   | 23.167      | 0.9593   |  |
|   |          |          |                       | 510    | 0.7200    | 4.08                 |        | 2100   | 19.255      | 0.9775   |  |
|   |          |          |                       | 515    | 0.9600    | 4.16                 |        | 2130   | 16.567      | 0.9928   |  |
|   |          |          |                       | 520    | 0.4799    | 4.20                 |        | 2200   | 14.704      | 1.0062   |  |
|   |          |          |                       | 535    | 0.4000    | 4.30                 |        | 2230   | 13.108      | 1.0181   |  |
|   |          |          |                       | 545    | 0.0600    | 4.31                 |        | 2300   | 11.940      | 1.0289   |  |
|   |          |          |                       | 550    | 0.8401    | 4.38                 |        | 2400   | 10.013      | 1.0477   |  |
|   |          |          |                       | 555    | 0.3600    | 4.41                 | 10-31  | 100    | 8.481       | 1.0635   |  |
|   |          |          |                       | 600    | 2.0400    | 4.58                 |        | 200    | 7.429       | 1.0771   |  |
|   |          |          |                       | 800    | 0.0       | 4.58                 |        | 240    | 6.997       | 1.0853   |  |
|   |          |          |                       | 805    | 0.6000    | 4.63                 |        | 250    | 7.222       | 1.0874   |  |
|   |          |          |                       | 810    | 0.2401    | 4.65                 |        | 255    | 7.453       | 1.0884   |  |

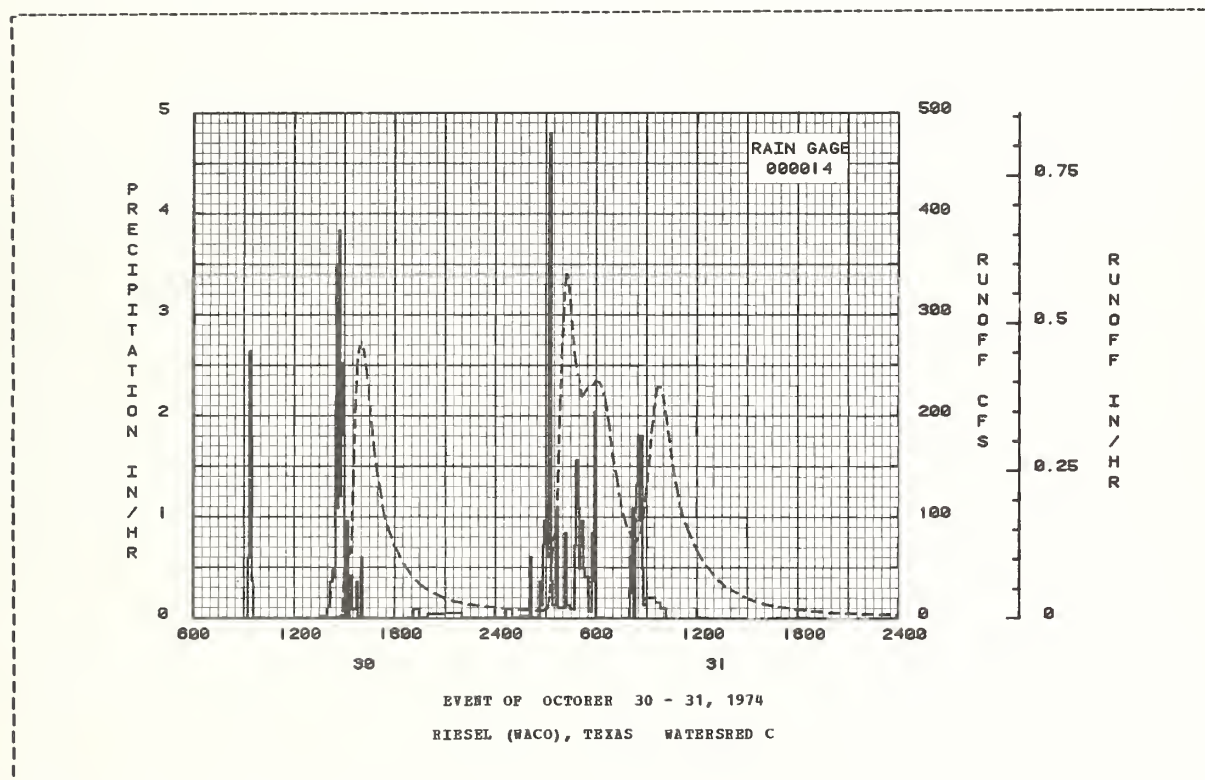
NOTES: To convert runoff in CFS to IN/HB, multiply by 0.001713.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED C |        |           |          |        |        |         |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |         |          |
| Date                                       | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                  |        |           |          |        |        |         |          |
| 10-31                                      |          |          | 815                              |        | 1.0800    | 4.74     | 10-31  | 300    | 8.177   | 1.0896   |
|  |          |          | 820                              |        | 0.0       | 4.74     |        | 305    | 9.087   | 1.0908   |
|  |          |          | 825                              |        | 0.9600    | 4.82     |        | 310    | 13.072  | 1.0923   |
|  |          |          | 830                              |        | 1.3200    | 4.93     |        | 312    | 15.900  | 1.0932   |
|  |          |          | 835                              |        | 1.7999    | 5.08     |        | 314    | 20.616  | 1.0942   |
|  |          |          | 840                              |        | 0.9600    | 5.16     |        | 316    | 25.360  | 1.0956   |
|  |          |          | 845                              |        | 1.7999    | 5.31     |        | 318    | 32.454  | 1.0971   |
|  |          |          | 850                              |        | 0.4801    | 5.35     |        | 320    | 38.020  | 1.0992   |
|  |          |          | 900                              |        | 0.1199    | 5.37     |        | 322    | 47.435  | 1.1015   |
|  |          |          | 930                              |        | 0.2000    | 5.47     |        | 324    | 59.800  | 1.1047   |
|  |          |          | 950                              |        | 0.1500    | 5.52     |        | 326    | 69.736  | 1.1082   |
|  |          |          | 1010                             |        | 0.0900    | 5.55     |        | 330    | 78.531  | 1.1171   |
|  |          |          |                                  |        |           |          |        | 333    | 81.824  | 1.1236   |
|  |          |          |                                  |        |           |          |        | 336    | 83.651  | 1.1308   |
|  |          |          |                                  |        |           |          |        | 340    | 93.089  | 1.1408   |
|  |          |          |                                  |        |           |          |        | 342    | 102.474 | 1.1467   |
|  |          |          |                                  |        |           |          |        | 344    | 127.445 | 1.1529   |
|  |          |          |                                  |        |           |          |        | 346    | 145.596 | 1.1611   |
|  |          |          |                                  |        |           |          |        | 348    | 165.714 | 1.1694   |
|  |          |          |                                  |        |           |          |        | 350    | 191.128 | 1.1802   |
|  |          |          |                                  |        |           |          |        | 352    | 212.812 | 1.1910   |
|  |          |          |                                  |        |           |          |        | 356    | 242.871 | 1.2169   |
|  |          |          |                                  |        |           |          |        | 400    | 271.080 | 1.2478   |
|  |          |          |                                  |        |           |          |        | 405    | 306.862 | 1.2884   |
|  |          |          |                                  |        |           |          |        | 410    | 329.750 | 1.3332   |
|  |          |          |                                  |        |           |          |        | 414    | 340.177 | 1.3713   |
|  |          |          |                                  |        |           |          |        | 416    | 339.173 | 1.3917   |
|  |          |          |                                  |        |           |          |        | 420    | 336.673 | 1.4301   |
|  |          |          |                                  |        |           |          |        | 430    | 308.253 | 1.5229   |
|  |          |          |                                  |        |           |          |        | 440    | 270.240 | 1.6042   |
|  |          |          |                                  |        |           |          |        | 450    | 247.927 | 1.6787   |
|  |          |          |                                  |        |           |          |        | 500    | 232.628 | 1.7479   |
|  |          |          |                                  |        |           |          |        | 510    | 218.435 | 1.8112   |
|  |          |          |                                  |        |           |          |        | 530    | 227.086 | 1.9394   |
|  |          |          |                                  |        |           |          |        | 550    | 230.399 | 2.0695   |
|  |          |          |                                  |        |           |          |        | 600    | 234.875 | 2.1364   |
|  |          |          |                                  |        |           |          |        | 610    | 233.375 | 2.2022   |
|  |          |          |                                  |        |           |          |        | 620    | 228.554 | 2.2687   |
|  |          |          |                                  |        |           |          |        | 630    | 217.726 | 2.3329   |
|  |          |          |                                  |        |           |          |        | 640    | 204.930 | 2.3923   |
|  |          |          |                                  |        |           |          |        | 650    | 185.129 | 2.4484   |
|  |          |          |                                  |        |           |          |        | 700    | 160.074 | 2.4980   |
|  |          |          |                                  |        |           |          |        | 710    | 144.565 | 2.5408   |
|  |          |          |                                  |        |           |          |        | 720    | 130.261 | 2.5804   |
|  |          |          |                                  |        |           |          |        | 730    | 110.093 | 2.6149   |
|  |          |          |                                  |        |           |          |        | 740    | 99.217  | 2.6444   |
|  |          |          |                                  |        |           |          |        | 750    | 91.111  | 2.6717   |
|  |          |          |                                  |        |           |          |        | 800    | 84.790  | 2.6970   |
|  |          |          |                                  |        |           |          |        | 810    | 79.209  | 2.7201   |
|  |          |          |                                  |        |           |          |        | 820    | 74.815  | 2.7422   |
|  |          |          |                                  |        |           |          |        | 830    | 77.858  | 2.7642   |
|  |          |          |                                  |        |           |          |        | 840    | 84.361  | 2.7870   |
|  |          |          |                                  |        |           |          |        | 850    | 101.162 | 2.8137   |
|  |          |          |                                  |        |           |          |        | 900    | 128.145 | 2.8467   |
|  |          |          |                                  |        |           |          |        | 910    | 153.776 | 2.8863   |
|  |          |          |                                  |        |           |          |        | 920    | 187.007 | 2.9353   |
|  |          |          |                                  |        |           |          |        | 930    | 211.771 | 2.9927   |
|  |          |          |                                  |        |           |          |        | 935    | 222.727 | 3.0232   |
|  |          |          |                                  |        |           |          |        | 940    | 228.554 | 3.0548   |
|  |          |          |                                  |        |           |          |        | 945    | 230.399 | 3.0887   |
|  |          |          |                                  |        |           |          |        | 950    | 227.452 | 3.1208   |
|  |          |          |                                  |        |           |          |        | 1000   | 218.790 | 3.1850   |
|  |          |          |                                  |        |           |          |        | 1010   | 198.922 | 3.2437   |
|  |          |          |                                  |        |           |          |        | 1020   | 181.417 | 3.2984   |
|  |          |          |                                  |        |           |          |        | 1030   | 157.861 | 3.3472   |
|  |          |          |                                  |        |           |          |        | 1040   | 141.005 | 3.3892   |
|  |          |          |                                  |        |           |          |        | 1050   | 127.678 | 3.4279   |
|  |          |          |                                  |        |           |          |        | 1100   | 109.919 | 3.4621   |
|  |          |          |                                  |        |           |          |        | 1110   | 100.024 | 3.4915   |
|  |          |          |                                  |        |           |          |        | 1120   | 92.477  | 3.5192   |
|  |          |          |                                  |        |           |          |        | 1140   | 79.073  | 3.5680   |
|  |          |          |                                  |        |           |          |        | 1200   | 66.695  | 3.6100   |
|  |          |          |                                  |        |           |          |        | 1220   | 57.304  | 3.6452   |
|  |          |          |                                  |        |           |          |        | 1240   | 48.842  | 3.6754   |
|  |          |          |                                  |        |           |          |        | 1300   | 42.619  | 3.7017   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED C |        |           |          |        |        |        |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |        |          |
| Date                                       | Rainfall | Rnoff    | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                  |        |           |          |        |        |        |          |
|  |          |          |                                  |        |           |          | 10-31  | 1320   | 36.700 | 3.7243   |
|  |          |          |                                  |        |           |          |        | 1340   | 31.486 | 3.7437   |
|  |          |          |                                  |        |           |          |        | 1400   | 27.892 | 3.7607   |
|  |          |          |                                  |        |           |          |        | 1500   | 19.208 | 3.8011   |
|  |          |          |                                  |        |           |          |        | 1530   | 16.314 | 3.8163   |
|  |          |          |                                  |        |           |          |        | 1600   | 13.796 | 3.8292   |
|  |          |          |                                  |        |           |          |        | 1630   | 11.940 | 3.8402   |
|  |          |          |                                  |        |           |          |        | 1700   | 10.486 | 3.8498   |
|  |          |          |                                  |        |           |          |        | 1800   | 8.252  | 3.8659   |
|  |          |          |                                  |        |           |          |        | 1900   | 6.373  | 3.8784   |
|  |          |          |                                  |        |           |          |        | 2000   | 5.163  | 3.8883   |
|  |          |          |                                  |        |           |          |        | 2100   | 4.331  | 3.8964   |
|  |          |          |                                  |        |           |          |        | 2200   | 3.658  | 3.9032   |
|  |          |          |                                  |        |           |          |        | 2300   | 3.140  | 3.9090   |
|  |          |          |                                  |        |           |          |        | 2400   | 2.744  | 3.9141   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.





RIESEL (WACO), TEXAS WATERSHED D

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 30 min. 38 sec. N.; Long. 96 deg. 53 min. 22 sec. W.

AREA: 1110.00 acres 1.73 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | RIESEL (WACO), TEXAS WATERSHED D |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|----------------------------------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                              | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 2.46              | 1.25  | 1.50   | 4.32  | 2.08    | 0.85                             | 0.61                                      | 7.48  | 6.40    | 7.44  | 4.58     | 1.76  | 40.73  |       |        |       |        |      |
|   | Q | 0.550             | 0.167 | 0.0    | 1.380 | 0.097   | 0.0                              | 0.0                                       | 0.561 | 1.542   | 4.004 | 1.918    | 0.230 | 10.448 |       |        |       |        |      |
| STA AV  | P | 2.07              | 2.63  | 2.28   | 3.86  | 3.75    | 3.38                             | 1.82                                      | 2.57  | 3.32    | 3.27  | 3.00     | 2.38  | 34.34  |       |        |       |        |      |
|   | Q | 0.525             | 0.570 | 0.682  | 1.067 | 0.930   | 0.647                            | 0.228                                     | 0.195 | 0.353   | 0.525 | 0.540    | 0.562 | 6.824  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                  |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                  | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                             | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 10-31             | 0.500 | 10-31  | 0.468 | 10-31   | 0.911                            | 10-31                                     | 2.089 | 10-31   | 2.901 | 10-30    | 3.892 | 10-30  | 4.034 | 10-30  | 4.199 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                  |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 3-29              | 2.110 | 3-29   | 1.930 | 3-29    | 3.150                            | 3-29                                      | 4.590 | 3-29    | 4.880 | 3-29     | 5.630 | 3-29   | 5.690 | 4-19   | 9.660 |        |      |
|   |   | 1965              |       | 1965   |       | 1965    |                                  | 1965                                      |       | 1965    |       | 1965     |       | 1965   |       | 1957   |       |        |      |

NOTES: Watershed conditions: 82% pasture; 11% row grain sorghum; 1% cotton; 1% oats; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20 and 26A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974   |  | DAILY PRECIPITATION (inches) |       |       |       |       | RIESEL (WACO), TEXAS WATERSHED D |       |       |       |       |       |       |  |
|--------|--|------------------------------|-------|-------|-------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|--|
| Day    |  | Jan                          | Feb   | Mar   | Apr   | May   | Jun                              | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |  |
| 1      |  | 0.01E                        | 0.0   | 0.0   | 0.0   | 1.22  | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 2      |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.01  | 0.0   | 0.0 E | 0.0   |  |
| 3      |  | 0.03E                        | 0.0   | 0.0   | 0.0   | 0.10E | 0.0                              | 0.0   | 0.03E | 0.37  | 0.0   | 0.0   | 0.0   |  |
| 4      |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.26E | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.56  | 0.0   |  |
| 5      |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.24  | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.14E |  |
| 6      |  | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.11E | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 7      |  | 0.03E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.74  | 0.0   |  |
| 8      |  | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.52  | 0.0   | 0.0   | 0.0 T | 0.0   |  |
| 9      |  | 0.01E                        | 0.0   | 0.09E | 0.0   | 0.0   | 0.44                             | 0.0   | 0.0   | 0.35  | 0.0   | 0.02E | 0.0   |  |
| 10     |  | 0.19                         | 0.0   | 0.18E | 0.0   | 0.15  | 0.0                              | 0.0   | 0.0   | 0.51  | 0.0   | 0.49  | 0.78  |  |
| 11     |  | 0.0                          | 0.0   | 0.01E | 1.13  | 0.0   | 0.0                              | 0.07E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 12     |  | 0.0                          | 0.0   | 0.08E | 0.0   | 0.0   | 0.36                             | 0.0   | 0.0   | 0.49  | 0.0   | 0.0   | 0.0   |  |
| 13     |  | 0.06E                        | 0.0   | 0.0   | 2.58  | 0.0   | 0.0                              | 0.0   | 0.0   | 0.86  | 0.0   | 0.0   | 0.0   |  |
| 14     |  | 0.0                          | 0.05E | 0.21  | 0.0   | 0.0   | 0.0                              | 0.26  | 0.0   | 0.58  | 0.90  | 0.0   | 0.0   |  |
| 15     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.05E                            | 0.14E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 16     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.08E | 0.0   | 0.56  | 0.0   | 0.0   | 0.0   |  |
| 17     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 2.08  | 0.0   | 0.0   | 0.0   |  |
| 18     |  | 0.81                         | 0.17E | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 19     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 20     |  | 0.0                          | 0.0   | 0.71  | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 21     |  | 0.0                          | 1.03  | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.18E | 0.0   | 0.0   | 0.0   |  |
| 22     |  | 0.0                          | 0.0   | 0.0   | 0.37  | 0.0   | 0.0                              | 0.0   | 0.52  | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 23     |  | 0.21                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 0.0   | 2.02  | 0.0   |  |
| 24     |  | 0.29                         | 0.0   | 0.22  | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.15  | 0.14E | 0.25  | 0.23  |  |
| 25     |  | 0.50                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.22  | 0.0   | 0.0   | 0.0   |  |
| 26     |  | 0.30                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.06E | 2.32  | 0.04E | 0.0   | 0.0   | 0.08E |  |
| 27     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.08  | 0.0   | 0.0   | 0.0   | 0.07E |  |
| 28     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 1.13  | 0.0   | 0.77  | 0.0   | 0.07E |  |
| 29     |  | 0.0                          | 0.0   | 0.0   | 0.11E | 0.0   | 0.0                              | 0.0   | 1.25  | 0.0   | 0.0   | 0.50  | 0.07E |  |
| 30     |  | 0.0                          | 0.0   | 0.0   | 0.13  | 0.0   | 0.0                              | 0.0   | 1.63  | 0.0   | 2.29  | 0.0   | 0.10E |  |
| 31     |  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                              | 0.0   | 0.0   | 0.0   | 3.34  | 0.0   | 0.22E |  |
| TOTAL  |  | 2.46                         | 1.25  | 1.50  | 4.32  | 2.08  | 0.85                             | 0.61  | 7.48  | 6.40  | 7.44  | 4.58  | 1.76  |  |
| STA AV |  | 2.07                         | 2.63  | 2.28  | 3.86  | 3.75  | 3.38                             | 1.82  | 2.57  | 3.32  | 3.27  | 3.00  | 2.38  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974   | MEAN DAILY DISCHARGE (cfs) |        |       |        |        | RIESEL (WACO), TEXAS |       |        |        | WATERSRRED D |        |        |  |
|--------|----------------------------|--------|-------|--------|--------|----------------------|-------|--------|--------|--------------|--------|--------|--|
| Day    | Jan                        | Feb    | Mar   | Apr    | May    | Jun                  | Jul   | Aug    | Sep    | Oct          | Nov    | Dec    |  |
| 1      | 0.0                        | 0.03   | 0.0   | 0.0    | 2.29   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 1.78   | 0.13   |  |
| 2      | 0.0                        | 0.02   | 0.0   | 0.0    | 0.27   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.39   | 0.05   |  |
| 3      | 0.0                        | 0.01   | 0.0   | 0.0    | 0.03   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.12   | 0.02   |  |
| 4      | 0.0                        | 0.00   | 0.0   | 0.0    | 1.31   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 2.63   | 0.02   |  |
| 5      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.27   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.62   | 0.03   |  |
| 6      | 0.0                        | 0.00   | 0.0   | 0.0    | 0.27   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.13   | 0.05   |  |
| 7      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.06   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 6.71   | 0.01   |  |
| 8      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.01   | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 2.55   | 0.01   |  |
| 9      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.57   | 0.0    |  |
| 10     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 10.10  | 4.66   |  |
| 11     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 1.52   | 4.34   |  |
| 12     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.27   | 0.47   |  |
| 13     | 0.0                        | 0.0    | 0.0   | 28.57  | 0.0    | 0.0                  | 0.0   | 0.0    | 0.02   | 0.0          | 0.08   | 0.16   |  |
| 14     | 0.0                        | 0.0    | 0.0   | 35.45  | 0.0    | 0.0                  | 0.0   | 0.0    | 4.41   | 0.0          | 0.02   | 0.08   |  |
| 15     | 0.0                        | 0.0    | 0.0   | 0.29   | 0.0    | 0.0                  | 0.0   | 0.0    | 0.76   | 0.0          | 0.01   | 0.05   |  |
| 16     | 0.00                       | 0.0    | 0.0   | 0.05   | 0.0    | 0.0                  | 0.0   | 0.0    | 0.10   | 0.0          | 0.01   | 0.02   |  |
| 17     | 0.0                        | 0.0    | 0.0   | 0.01   | 0.0    | 0.0                  | 0.0   | 0.0    | 59.74  | 0.0          | 0.00   | 0.01   |  |
| 18     | 0.27                       | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 6.27   | 0.0          | 0.0    | 0.01   |  |
| 19     | 5.51                       | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.45   | 0.0          | 0.00   | 0.00   |  |
| 20     | 0.38                       | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.09   | 0.0          | 0.0    | 0.0    |  |
| 21     | 0.07                       | 7.21   | 0.0   | 0.00   | 0.0    | 0.0                  | 0.0   | 0.0    | 0.03   | 0.0          | 0.0    | 0.0    |  |
| 22     | 0.02                       | 0.39   | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.00   | 0.0          | 0.0    | 0.00   |  |
| 23     | 0.01                       | 0.08   | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 22.76  | 0.0    |  |
| 24     | 0.89                       | 0.02   | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 37.24  | 0.01   |  |
| 25     | 1.96                       | 0.00   | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.00   | 0.0          | 0.64   | 0.00   |  |
| 26     | 15.11                      | 0.00   | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.00   | 0.0          | 0.16   | 0.01   |  |
| 27     | 0.91                       | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.0    | 0.0    | 0.0          | 0.06   | 0.01   |  |
| 28     | 0.32                       | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.09   | 0.0    | 0.0          | 0.03   | 0.02   |  |
| 29     | 0.11                       |        | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 0.44   | 0.0    | 0.0          | 0.41   | 0.03   |  |
| 30     | 0.06                       |        | 0.0   | 0.0    | 0.0    | 0.0                  | 0.0   | 25.51  | 0.0    | 44.75        | 0.62   | 0.07   |  |
| 31     | 0.03                       |        | 0.0   |        | 0.0    |                      | 0.0   | 0.11   |        | 141.98       |        | 0.42   |  |
| MEAN   | 0.8279                     | 0.2778 | 0.0   | 2.1455 | 0.1459 | 0.0                  | 0.0   | 0.8435 | 2.3963 | 6.0236       | 2.9812 | 0.3459 |  |
| INCHRS | 0.550                      | 0.167  | 0.0   | 1.380  | 0.097  | 0.0                  | 0.0   | 0.561  | 1.542  | 4.004        | 1.918  | 0.230  |  |
| STA AV | 0.525                      | 0.570  | 0.682 | 1.067  | 0.930  | 0.647                | 0.228 | 0.195  | 0.353  | 0.525        | 0.540  | 0.562  |  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.021443. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 30 yr period.

| 1974  | SELECTED RUNOFF EVENT |          |           | RIESEL (WACO), TEXAS WATERSRRED D |           |          |        |        |        |          |
|---|-----------------------|----------|-----------|-----------------------------------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL  |                                   |           |          | RUNOFF |        |        |          |
| Date  | Rainfall              | Rnnoff   | Date      | Time                              | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day  | (inches)              | (inches) | Mo-Day    | of Day                            | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974  |                       |          |           |                                   |           |          |        |        |        |          |
| RG 000014   |                       |          | RG 000014 |                                   |           |          |        |        |        |          |
| 10-30   | 0.0                   | 0.0      | 10-30     | 915                               | 0.0       | 0.0      | 10-30  | 1010   | 0.0    | 0.0      |
|   |                       |          |           | 920                               | 0.6000    | 0.05     |        | 1015   | 0.0    | 0.0      |
|   |                       |          |           | 925                               | 2.6400    | 0.27     |        | 1020   | 0.002  | 0.0      |
|   |                       |          |           | 930                               | 1.7999    | 0.42     |        | 1025   | 0.012  | 0.0      |
|   |                       |          |           | 935                               | 0.3600    | 0.45     |        | 1030   | 0.129  | 0.0      |
| WATERSHED CONDITIONS:<br>82% pasture; 11% row grain<br>sorghum; 1% oats; 1% cotton;<br>2% roads; 3% other.<br>Approx. 90% of other is John-<br>songrass and weeds in conser-<br>vation reserve, neither til-<br>led nor grazed. |                       |          |           | 1330                              | 0.0       | 0.45     |        | 1035   | 0.321  | 0.0      |
|   |                       |          |           | 1400                              | 0.0200    | 0.46     |        | 1040   | 0.372  | 0.0      |
|   |                       |          |           | 1410                              | 0.1199    | 0.48     |        | 1045   | 0.392  | 0.0001   |
|   |                       |          |           | 1420                              | 0.3601    | 0.54     |        | 1050   | 0.381  | 0.0001   |
|   |                       |          |           | 1425                              | 0.4799    | 0.58     |        | 1100   | 0.333  | 0.0001   |
|   |                       |          |           | 1428                              | 0.4001    | 0.60     |        | 1120   | 0.238  | 0.0002   |
|   |                       |          |           | 1430                              | 2.0998    | 0.67     |        | 1140   | 0.185  | 0.0003   |
|   |                       |          |           | 1435                              | 3.4801    | 0.96     |        | 1200   | 0.126  | 0.0003   |
|   |                       |          |           | 1440                              | 1.0800    | 1.05     |        | 1220   | 0.093  | 0.0004   |
|   |                       |          |           | 1445                              | 3.8399    | 1.37     |        | 1240   | 0.068  | 0.0004   |
|   |                       |          |           | 1450                              | 1.2001    | 1.47     |        | 1300   | 0.049  | 0.0004   |
|   |                       |          |           | 1455                              | 2.5201    | 1.68     |        | 1320   | 0.040  | 0.0004   |
|   |                       |          |           | 1500                              | 1.7999    | 1.83     |        | 1340   | 0.030  | 0.0004   |
|   |                       |          |           | 1505                              | 0.3600    | 1.86     |        | 1350   | 0.035  | 0.0004   |
|   |                       |          |           | 1510                              | 0.0       | 1.86     |        | 1400   | 0.032  | 0.0004   |
|   |                       |          |           | 1515                              | 0.9600    | 1.94     |        | 1410   | 0.037  | 0.0004   |
|   |                       |          |           | 1520                              | 0.0       | 1.94     |        | 1415   | 0.045  | 0.0004   |
|   |                       |          |           | 1530                              | 0.4200    | 2.01     |        | 1420   | 0.058  | 0.0005   |
|   |                       |          |           | 1545                              | 0.0800    | 2.03     |        | 1425   | 0.082  | 0.0005   |
|   |                       |          |           | 1550                              | 0.3600    | 2.06     |        | 1430   | 0.172  | 0.0005   |
|   |                       |          |           | 1600                              | 0.0       | 2.06     |        | 1435   | 0.685  | 0.0005   |
|   |                       |          |           | 1605                              | 0.6000    | 2.11     |        | 1440   | 3.107  | 0.0006   |
|   |                       |          |           | 1910                              | 0.0       | 2.11     |        | 1445   | 9.231  | 0.0011   |
|   |                       |          |           | 1930                              | 0.0900    | 2.14     |        | 1450   | 16.139 | 0.0020   |
|   |                       |          |           | 2000                              | 0.0       | 2.14     |        | 1455   | 29.855 | 0.0037   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

| 1974 SELECTED RUNOFF EVENT                 |                      |                    | RIESEL (WACO), TEXAS WATERSHED D |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL                         |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                                  |                |                      |                  |                |                |               |                  |
| 10-30                                      |                      |                    |                                  | 2100           | 0.0400               | 2.18             | 10-30          | 1500           | 51.960        | 0.0069           |
|  |                      |                    |                                  | 2200           | 0.0500               | 2.23             |                | 1505           | 71.320        | 0.0114           |
| 10-31                                      |                      |                    |                                  | 2400           | 0.0                  | 2.23             |                | 1510           | 131.960       | 0.0188           |
|  |                      |                    |                                  | 40             | 0.0                  | 2.23             |                | 1515           | 194.160       | 0.0313           |
|  |                      |                    |                                  | 100            | 0.0900               | 2.26             |                | 1520           | 215.400       | 0.0464           |
|  |                      |                    |                                  | 130            | 0.0                  | 2.26             |                | 1525           | 241.680       | 0.0631           |
|  |                      |                    |                                  | 200            | 0.0200               | 2.27             |                | 1530           | 251.040       | 0.0820           |
|  |                      |                    |                                  | 205            | 0.0                  | 2.27             |                | 1535           | 249.600       | 0.1004           |
|  |                      |                    |                                  | 210            | 0.6000               | 2.32             |                | 1540           | 267.600       | 0.1193           |
|  |                      |                    |                                  | 240            | 0.0                  | 2.32             |                | 1545           | 307.350       | 0.1414           |
|  |                      |                    |                                  | 245            | 0.3600               | 2.35             |                | 1550           | 356.878       | 0.1657           |
|  |                      |                    |                                  | 250            | 0.1199               | 2.36             |                | 1555           | 394.020       | 0.1932           |
|  |                      |                    |                                  | 255            | 0.7200               | 2.42             |                | 1600           | 420.479       | 0.2245           |
|  |                      |                    |                                  | 300            | 0.9600               | 2.50             |                | 1605           | 438.120       | 0.2560           |
|  |                      |                    |                                  | 305            | 0.8401               | 2.57             |                | 1610           | 444.000       | 0.2883           |
|  |                      |                    |                                  | 310            | 0.5999               | 2.62             |                | 1615           | 438.948       | 0.3222           |
|  |                      |                    |                                  | 315            | 4.4401               | 2.99             |                | 1620           | 425.750       | 0.3539           |
|  |                      |                    |                                  | 320            | 4.7999               | 3.39             |                | 1625           | 410.898       | 0.3845           |
|  |                      |                    |                                  | 325            | 0.3600               | 3.42             |                | 1630           | 389.128       | 0.4153           |
|  |                      |                    |                                  | 340            | 0.1200               | 3.45             |                | 1640           | 345.000       | 0.4691           |
|  |                      |                    |                                  | 345            | 1.0801               | 3.54             |                | 1650           | 300.300       | 0.5175           |
|  |                      |                    |                                  | 410            | 0.0960               | 3.58             |                | 1700           | 259.240       | 0.5595           |
|  |                      |                    |                                  | 415            | 0.8401               | 3.65             |                | 1710           | 228.840       | 0.5952           |
|  |                      |                    |                                  | 430            | 0.1200               | 3.68             |                | 1720           | 198.540       | 0.6273           |
|  |                      |                    |                                  | 445            | 0.0800               | 3.70             |                | 1730           | 171.250       | 0.6551           |
|  |                      |                    |                                  | 450            | 0.7200               | 3.76             |                | 1740           | 154.190       | 0.6789           |
|  |                      |                    |                                  | 455            | 1.5601               | 3.89             |                | 1750           | 140.690       | 0.7010           |
|  |                      |                    |                                  | 500            | 1.0800               | 3.98             |                | 1800           | 128.270       | 0.7212           |
|  |                      |                    |                                  | 505            | 0.4801               | 4.02             |                | 1810           | 116.720       | 0.7392           |
|  |                      |                    |                                  | 510            | 0.7200               | 4.08             |                | 1820           | 106.640       | 0.7559           |
|  |                      |                    |                                  | 515            | 0.9600               | 4.16             |                | 1830           | 95.620        | 0.7711           |
|  |                      |                    |                                  | 520            | 0.4799               | 4.20             |                | 1840           | 85.940        | 0.7844           |
|  |                      |                    |                                  | 535            | 0.4000               | 4.30             |                | 1900           | 71.780        | 0.8081           |
|  |                      |                    |                                  | 545            | 0.0600               | 4.31             |                | 1920           | 60.540        | 0.8277           |
|  |                      |                    |                                  | 550            | 0.8401               | 4.38             |                | 1940           | 52.500        | 0.8445           |
|  |                      |                    |                                  | 555            | 0.3600               | 4.41             |                | 2000           | 46.500        | 0.8593           |
|  |                      |                    |                                  | 600            | 2.0400               | 4.58             |                | 2030           | 39.480        | 0.8785           |
|  |                      |                    |                                  | 800            | 0.0                  | 4.58             |                | 2100           | 32.636        | 0.8946           |
|  |                      |                    |                                  | 805            | 0.6000               | 4.63             |                | 2130           | 28.925        | 0.9084           |
|  |                      |                    |                                  | 810            | 0.2401               | 4.65             |                | 2200           | 26.265        | 0.9207           |
|  |                      |                    |                                  | 815            | 1.0800               | 4.74             |                | 2300           | 21.391        | 0.9420           |
|  |                      |                    |                                  | 820            | 0.0                  | 4.74             |                | 2400           | 17.997        | 0.9596           |
|  |                      |                    |                                  | 825            | 0.9600               | 4.82             | 10-31          | 100            | 14.703        | 0.9742           |
|  |                      |                    |                                  | 830            | 1.3200               | 4.93             |                | 140            | 13.036        | 0.9824           |
|  |                      |                    |                                  | 835            | 1.7999               | 5.08             |                | 200            | 12.466        | 0.9863           |
|  |                      |                    |                                  | 840            | 0.9600               | 5.16             |                | 240            | 12.892        | 0.9938           |
|  |                      |                    |                                  | 845            | 1.7999               | 5.31             |                | 250            | 13.588        | 0.9958           |
|  |                      |                    |                                  | 850            | 0.4801               | 5.35             |                | 255            | 15.103        | 0.9968           |
|  |                      |                    |                                  | 900            | 0.1199               | 5.37             |                | 300            | 17.632        | 0.9981           |
|  |                      |                    |                                  | 930            | 0.2000               | 5.47             |                | 305            | 20.011        | 0.9995           |
|  |                      |                    |                                  | 950            | 0.1500               | 5.52             |                | 310            | 28.729        | 1.0012           |
|  |                      |                    |                                  | 1010           | 0.0900               | 5.55             |                | 315            | 52.140        | 1.0044           |
|  |                      |                    |                                  |                |                      |                  |                | 320            | 60.100        | 1.0085           |
|  |                      |                    |                                  |                |                      |                  |                | 325            | 144.180       | 1.0160           |
|  |                      |                    |                                  |                |                      |                  |                | 330            | 198.450       | 1.0291           |
|  |                      |                    |                                  |                |                      |                  |                | 335            | 280.560       | 1.0467           |
|  |                      |                    |                                  |                |                      |                  |                | 340            | 339.530       | 1.0694           |
|  |                      |                    |                                  |                |                      |                  |                | 345            | 362.780       | 1.0963           |
|  |                      |                    |                                  |                |                      |                  |                | 350            | 376.250       | 1.1234           |
|  |                      |                    |                                  |                |                      |                  |                | 355            | 404.810       | 1.1520           |
|  |                      |                    |                                  |                |                      |                  |                | 400            | 434.178       | 1.1843           |
|  |                      |                    |                                  |                |                      |                  |                | 405            | 470.090       | 1.2174           |
|  |                      |                    |                                  |                |                      |                  |                | 410            | 510.479       | 1.2533           |
|  |                      |                    |                                  |                |                      |                  |                | 415            | 529.608       | 1.2933           |
|  |                      |                    |                                  |                |                      |                  |                | 420            | 553.198       | 1.3329           |
|  |                      |                    |                                  |                |                      |                  |                | 430            | 559.418       | 1.4164           |
|  |                      |                    |                                  |                |                      |                  |                | 440            | 533.840       | 1.4965           |
|  |                      |                    |                                  |                |                      |                  |                | 450            | 509.320       | 1.5748           |
|  |                      |                    |                                  |                |                      |                  |                | 500            | 489.438       | 1.6498           |
|  |                      |                    |                                  |                |                      |                  |                | 510            | 474.638       | 1.7204           |
|  |                      |                    |                                  |                |                      |                  |                | 520            | 485.280       | 1.7924           |
|  |                      |                    |                                  |                |                      |                  |                | 530            | 499.610       | 1.8664           |
|  |                      |                    |                                  |                |                      |                  |                | 540            | 500.540       | 1.9397           |
|  |                      |                    |                                  |                |                      |                  |                | 550            | 502.388       | 2.0149           |
|  |                      |                    |                                  |                |                      |                  |                | 600            | 507.010       | 2.0906           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED D |        |           |          |        |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                         |        |           | RUNOFF   |        |          |
| Date                                       | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day   |
|  |          |          |                                  |        |           |          |        | Rate     |
|  |          |          |                                  |        |           |          |        | (cfs)    |
|  |          |          |                                  |        |           |          |        | Acc.     |
|  |          |          |                                  |        |           |          |        | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                  |        |           |          |        |          |
|  |          |          |                                  | 10-31  |           |          | 610    | 505.158  |
|  |          |          |                                  |        |           |          | 620    | 496.840  |
|  |          |          |                                  |        |           |          | 630    | 474.638  |
|  |          |          |                                  |        |           |          | 640    | 442.729  |
|  |          |          |                                  |        |           |          | 650    | 402.490  |
|  |          |          |                                  |        |           |          | 700    | 356.198  |
|  |          |          |                                  |        |           |          | 710    | 316.330  |
|  |          |          |                                  |        |           |          | 720    | 284.698  |
|  |          |          |                                  |        |           |          | 730    | 255.060  |
|  |          |          |                                  |        |           |          | 740    | 222.000  |
|  |          |          |                                  |        |           |          | 750    | 198.200  |
|  |          |          |                                  |        |           |          | 800    | 171.560  |
|  |          |          |                                  |        |           |          | 810    | 161.560  |
|  |          |          |                                  |        |           |          | 820    | 151.880  |
|  |          |          |                                  |        |           |          | 830    | 182.900  |
|  |          |          |                                  |        |           |          | 840    | 221.640  |
|  |          |          |                                  |        |           |          | 850    | 282.388  |
|  |          |          |                                  |        |           |          | 900    | 339.719  |
|  |          |          |                                  |        |           |          | 910    | 366.378  |
|  |          |          |                                  |        |           |          | 920    | 387.620  |
|  |          |          |                                  |        |           |          | 930    | 407.600  |
|  |          |          |                                  |        |           |          | 940    | 420.350  |
|  |          |          |                                  |        |           |          | 950    | 428.418  |
|  |          |          |                                  |        |           |          | 1000   | 416.398  |
|  |          |          |                                  |        |           |          | 1010   | 389.999  |
|  |          |          |                                  |        |           |          | 1020   | 358.800  |
|  |          |          |                                  |        |           |          | 1030   | 322.830  |
|  |          |          |                                  |        |           |          | 1040   | 295.530  |
|  |          |          |                                  |        |           |          | 1050   | 261.300  |
|  |          |          |                                  |        |           |          | 1100   | 235.300  |
|  |          |          |                                  |        |           |          | 1120   | 191.300  |
|  |          |          |                                  |        |           |          | 1140   | 151.220  |
|  |          |          |                                  |        |           |          | 1200   | 124.640  |
|  |          |          |                                  |        |           |          | 1220   | 107.120  |
|  |          |          |                                  |        |           |          | 1240   | 90.020   |
|  |          |          |                                  |        |           |          | 1300   | 74.740   |
|  |          |          |                                  |        |           |          | 1330   | 59.630   |
|  |          |          |                                  |        |           |          | 1400   | 48.500   |
|  |          |          |                                  |        |           |          | 1430   | 40.760   |
|  |          |          |                                  |        |           |          | 1500   | 35.320   |
|  |          |          |                                  |        |           |          | 1530   | 28.860   |
|  |          |          |                                  |        |           |          | 1600   | 25.064   |
|  |          |          |                                  |        |           |          | 1630   | 21.973   |
|  |          |          |                                  |        |           |          | 1700   | 19.419   |
|  |          |          |                                  |        |           |          | 1730   | 16.961   |
|  |          |          |                                  |        |           |          | 1800   | 14.703   |
|  |          |          |                                  |        |           |          | 1900   | 11.614   |
|  |          |          |                                  |        |           |          | 2000   | 9.287    |
|  |          |          |                                  |        |           |          | 2100   | 7.590    |
|  |          |          |                                  |        |           |          | 2200   | 6.345    |
|  |          |          |                                  |        |           |          | 2300   | 5.352    |
|  |          |          |                                  |        |           |          | 2400   | 4.529    |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.





**RIESEL (WACO), TEXAS WATERSHED G**

**LOCATION:** McLennan and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 59 sec. N.; Long. 96 deg. 52 min. 06 sec. W.

**AREA:** 4380.00 acres 6.84 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS WATERSHED G          |         |       |          |       |       |        |        |       |        |
|---|---|-------------------|-------|--------|-------|---------|-------|---|---------|-------|----------|-------|-------|--------|--------|-------|--------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug     | Sep   | Oct      | Nov   | Dec   | Annual |        |       |        |
| 1974  | P | 2.32              | 1.15  | 1.52   | 4.10  | 1.93    | 0.72  | 0.73                                      | 7.07    | 7.32  | 7.09     | 4.45  | 1.69  | 40.09  |        |       |        |
|   | Q | 0.541             | 0.156 | 0.002  | 0.838 | 0.080   | 0.0   | 0.0                                       | 0.157   | 2.004 | 3.944    | 1.870 | 0.246 | 9.838  |        |       |        |
| STA AV  | P | 2.26              | 2.70  | 2.26   | 3.61  | 3.34    | 4.02  | 2.09                                      | 2.94    | 3.55  | 3.54     | 3.04  | 2.63  | 35.98  |        |       |        |
|   | Q | 0.747             | 0.699 | 0.761  | 0.759 | 0.658   | 0.966 | 0.258                                     | 0.161   | 0.372 | 0.488    | 0.605 | 0.633 | 7.105  |        |       |        |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |         |       |          |       |       |        |        |       |        |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |         |       |          |       |       |        |        |       |        |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | 6 Hours | Date  | 12 Hours | Date  | 1 Day | Date   | 2 Days | Date  | 8 Days |
| 1974  |   | 10-31             | 0.515 | 10-31  | 0.498 | 10-31   | 0.928 | 10-31                                     | 2.288   | 10-31 | 3.165    | 10-30 | 3.784 | 10-30  | 3.988  | 10-30 | 4.140  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |         |       |          |       |       |        |        |       |        |
|   |   | 3-29              | 0.950 | 3-29   | 0.910 | 3-29    | 1.720 | 3-29                                      | 3.390   | 3-29  | 3.940    | 3-29  | 4.030 | 3-29   | 4.740  | 11-22 | 4.820  |
|   |   | 1965              |       | 1965   |       | 1965    |       | 1965                                      |         | 1965  |          | 1965  |       | 1965   |        | 1940  |        |

**NOTES:** Watershed conditions: 53% pasture; 2% tilled, but not planted; 4% cotton; 4% corn; 3% fall planted small grain, largely oats; 14% sorghum; 2% gravel and paved roads; 18% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974   |     | DAILY PRECIPITATION (inches) |       |       |       |       | HIESEL (WACO), TEXAS |       |       |       |       | WATERSHED G |       |  |
|--------|-----|------------------------------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------------|-------|--|
|        | Day | Jan                          | Feb   | Mar   | Apr   | May   | Jun                  | Jul   | Aug   | Sep   | Oct   | Nov         | Dec   |  |
|        | 1   | 0.01E                        | 0.0   | 0.0   | 0.0   | 1.19  | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 2   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0 E | 0.0                  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 E       | 0.0   |  |
|        | 3   | 0.04E                        | 0.0   | 0.0   | 0.0   | 0.04E | 0.0                  | 0.0   | 0.08E | 0.43  | 0.0   | 0.0         | 0.0   |  |
|        | 4   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.07E | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.43        | 0.0   |  |
|        | 5   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.42  | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.15E |  |
|        | 6   | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.06E | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 7   | 0.02E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.67        | 0.0   |  |
|        | 8   | 0.02E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.39  | 0.0   | 0.0   | 0.13E       | 0.0   |  |
|        | 9   | 0.02E                        | 0.0   | 0.07E | 0.0   | 0.0   | 0.35                 | 0.0   | 0.0   | 0.35  | 0.0   | 0.05E       | 0.0   |  |
|        | 10  | 0.19                         | 0.0   | 0.21E | 0.0   | 0.15  | 0.0                  | 0.0   | 0.0   | 0.78  | 0.0   | 0.43        | 0.73  |  |
|        | 11  | 0.0                          | 0.0   | 0.05E | 1.05  | 0.0   | 0.0                  | 0.08E | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 12  | 0.0                          | 0.0   | 0.11E | 0.0   | 0.0   | 0.35                 | 0.0   | 0.0   | 0.51  | 0.0   | 0.0         | 0.0   |  |
|        | 13  | 0.07E                        | 0.0   | 0.0   | 2.36  | 0.0   | 0.0                  | 0.0   | 0.0   | 0.92  | 0.0   | 0.0         | 0.0   |  |
|        | 14  | 0.0                          | 0.05E | 0.27  | 0.0   | 0.0   | 0.0                  | 0.19  | 0.0   | 0.59  | 0.78  | 0.0         | 0.0   |  |
|        | 15  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E                | 0.11E | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 16  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.09E | 0.0   | 0.66  | 0.0   | 0.0         | 0.0   |  |
|        | 17  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 2.45  | 0.0   | 0.0         | 0.0   |  |
|        | 18  | 0.63                         | 0.17E | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 19  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 20  | 0.0                          | 0.0   | 0.57  | 0.0 E | 0.0   | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 21  | 0.0                          | 0.93  | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.21E | 0.0   | 0.0         | 0.0   |  |
|        | 22  | 0.0                          | 0.0   | 0.0   | 0.39  | 0.0   | 0.0                  | 0.0   | 0.76  | 0.0   | 0.0   | 0.0         | 0.0   |  |
|        | 23  | 0.26                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.0   | 0.0   | 2.05        | 0.0   |  |
|        | 24  | 0.28                         | 0.0   | 0.24  | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0   | 0.12  | 0.14E | 0.26        | 0.29  |  |
|        | 25  | 0.47                         | 0.0   | 0.0 E | 0.0   | 0.0   | 0.0                  | 0.0   | 0.0 E | 0.27  | 0.0   | 0.0         | 0.0   |  |
|        | 26  | 0.30                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.10E | 2.25  | 0.03E | 0.0   | 0.0         | 0.09E |  |
|        | 27  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 0.09  | 0.0   | 0.0   | 0.0         | 0.06E |  |
|        | 28  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                  | 0.0   | 1.05  | 0.0   | 0.79  | 0.0         | 0.06E |  |
|        | 29  | 0.0                          |       | 0.0   | 0.11E | 0.0   | 0.0                  | 0.0   | 1.04  | 0.0   | 0.0   | 0.43        | 0.06E |  |
|        | 30  | 0.0                          |       | 0.0   | 0.19  | 0.0   | 0.0                  | 0.0   | 1.41  | 0.0   | 2.00  | 0.0         | 0.09E |  |
|        | 31  | 0.0                          |       | 0.0   |       | 0.0   |                      | 0.16E | 0.0   |       | 3.38  |             | 0.16E |  |
| TOTAL  |     | 2.32                         | 1.15  | 1.52  | 4.10  | 1.93  | 0.72                 | 0.73  | 7.07  | 7.32  | 7.09  | 4.45        | 1.69  |  |
| STA AV |     | 2.26                         | 2.70  | 2.26  | 3.61  | 3.34  | 4.02                 | 2.09  | 2.94  | 3.55  | 3.54  | 3.04        | 2.63  |  |

**NOTES:** For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 22 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED G |       |       |       |        |       |       |       |       |        |        |        |       |
|--|-------|-------|-------|--------|-------|-------|-------|-------|--------|--------|--------|-------|
| Day  | Jan   | Feb   | Mar   | Apr    | May   | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec   |
| 1  | 0.0   | 0.18  | 0.02  | 0.0    | 10.32 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 10.21  | 1.12  |
| 2  | 0.0   | 0.20  | 0.0   | 0.0    | 1.60  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 2.89   | 0.59  |
| 3  | 0.0   | 0.11  | 0.02  | 0.0    | 0.24  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 1.20   | 0.44  |
| 4  | 0.0   | 0.05  | 0.0   | 0.0    | 0.88  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 5.74   | 0.35  |
| 5  | 0.0   | 0.04  | 0.0   | 0.0    | 0.98  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 3.13   | 0.39  |
| 6  | 0.0   | 0.04  | 0.0   | 0.0    | 0.48  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.85   | 0.85  |
| 7  | 0.0   | 0.02  | 0.0   | 0.0    | 0.18  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 23.89  | 0.51  |
| 8  | 0.0   | 0.02  | 0.0   | 0.0    | 0.04  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 13.56  | 0.33  |
| 9  | 0.0   | 0.0   | 0.0   | 0.0    | 0.02  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 3.86   | 0.28  |
| 10   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.07   | 0.0    | 27.05  | 7.45  |
| 11   | 0.04  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.05   | 0.0    | 8.56   | 16.88 |
| 12   | 0.0   | 0.0   | 0.04  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.04   | 0.0    | 1.88   | 3.00  |
| 13   | 0.0   | 0.0   | 0.0   | 12.97  | 0.0   | 0.0   | 0.0   | 0.0   | 3.13   | 0.0    | 0.63   | 1.27  |
| 14   | 0.02  | 0.0   | 0.0   | 138.24 | 0.0   | 0.0   | 0.0   | 0.0   | 20.02  | 0.0    | 0.29   | 0.88  |
| 15   | 0.0   | 0.0   | 0.04  | 2.21   | 0.0   | 0.0   | 0.0   | 0.0   | 5.76   | 0.0    | 0.24   | 0.64  |
| 16   | 0.02  | 0.0   | 0.04  | 0.40   | 0.0   | 0.0   | 0.0   | 0.0   | 0.64   | 0.0    | 0.20   | 0.44  |
| 17   | 0.0   | 0.0   | 0.0   | 0.17   | 0.0   | 0.0   | 0.0   | 0.0   | 274.91 | 0.0    | 0.20   | 0.33  |
| 18   | 0.02  | 0.0   | 0.0   | 0.05   | 0.0   | 0.0   | 0.0   | 0.0   | 55.57  | 0.0    | 0.17   | 0.26  |
| 19   | 8.56  | 0.0   | 0.0   | 0.04   | 0.0   | 0.0   | 0.0   | 0.0   | 5.48   | 0.0    | 0.15   | 0.22  |
| 20   | 1.47  | 0.0   | 0.0   | 0.02   | 0.0   | 0.0   | 0.0   | 0.0   | 1.42   | 0.0    | 0.09   | 0.18  |
| 21   | 0.40  | 24.97 | 0.07  | 0.02   | 0.0   | 0.0   | 0.0   | 0.0   | 0.39   | 0.0    | 0.07   | 0.18  |
| 22   | 0.20  | 2.23  | 0.02  | 0.04   | 0.0   | 0.0   | 0.0   | 0.0   | 0.20   | 0.0    | 0.05   | 0.17  |
| 23   | 0.20  | 0.53  | 0.0   | 0.04   | 0.0   | 0.0   | 0.0   | 0.0   | 0.11   | 0.0    | 47.79  | 0.20  |
| 24   | 3.24  | 0.17  | 0.0   | 0.02   | 0.0   | 0.0   | 0.0   | 0.0   | 0.07   | 0.0    | 178.57 | 0.39  |
| 25   | 4.03  | 0.05  | 0.02  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.44   | 0.0    | 4.67   | 0.75  |
| 26   | 73.66 | 0.04  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.28   | 0.0    | 1.71   | 0.48  |
| 27   | 4.49  | 0.04  | 0.02  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.11   | 0.0    | 0.83   | 0.59  |
| 28   | 1.82  | 0.02  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.05   | 0.0    | 0.51   | 0.63  |
| 29   | 0.75  |       | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.04   | 0.0    | 1.69   | 0.81  |
| 30   | 0.39  |       | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 28.10 | 0.0    | 94.16  | 3.40   | 1.20  |
| 31   | 0.26  |       | 0.0   |        | 0.0   | 0.0   | 0.0   | 0.81  |        | 631.71 |        | 3.40  |
| MEAN   | 3.212 | 1.025 | 0.009 | 5.140  | 0.475 | 0.0   | 0.0   | 0.933 | 12.293 | 23.415 | 11.470 | 1.458 |
| INCRBS   | 0.541 | 0.156 | 0.002 | 0.838  | 0.080 | 0.0   | 0.0   | 0.157 | 2.004  | 3.944  | 1.870  | 0.246 |
| STA AV   | 0.747 | 0.699 | 0.761 | 0.759  | 0.658 | 0.966 | 0.258 | 0.161 | 0.372  | 0.488  | 0.605  | 0.633 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 22 yr period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED G |          |          |           |        |           |          |        |        |         |          |  |  |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|---------|----------|--|--|
| ANTECEDENT CONDITIONS                                       |          |          | RAINFALL  |        |           |          | RUNOFF |        |         |          |  |  |
| Date  | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |  |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |  |
| EVENT OF OCTOBER 30 - NOVEMBER 1, 1974                      |          |          |           |        |           |          |        |        |         |          |  |  |
| RG 00065A   |          |          | RG 00065A |        |           |          |        |        |         |          |  |  |
| 10-30   | 0.0      | 0.0      | 10-30     | 915    | 0.0       | 0.0      | 10-30  | 1435   | 0.356   | 0.0      |  |  |
|   |          |          |           | 920    | 0.7200    | 0.06     |        | 1440   | 0.747   | 0.0001   |  |  |
|   |          |          |           | 925    | 1.9200    | 0.22     |        | 1445   | 1.231   | 0.0001   |  |  |
|   |          |          |           | 930    | 1.4399    | 0.34     |        | 1450   | 2.228   | 0.0001   |  |  |
|   |          |          |           | 945    | 0.0800    | 0.36     |        | 1455   | 3.399   | 0.0002   |  |  |
| WATERSHED CONDITIONS:                                       |          |          |           | 1325   | 0.0       | 0.36     |        | 1500   | 5.357   | 0.0002   |  |  |
| 53% pasture, dormant, all                                   |          |          |           | 1330   | 0.2401    | 0.38     |        | 1505   | 8.038   | 0.0004   |  |  |
| classes; 2% tilled but not                                  |          |          |           | 1400   | 0.0       | 0.38     |        | 1515   | 12.015  | 0.0006   |  |  |
| planted; 4% cotton; 4% corn;                                |          |          |           | 1415   | 0.2400    | 0.44     |        | 1530   | 21.095  | 0.0010   |  |  |
| 3% fall planted small grain,                                |          |          |           | 1430   | 0.2000    | 0.49     |        | 1545   | 33.566  | 0.0016   |  |  |
| mostly oats; 14% sorghum; 2%                                |          |          |           | 1435   | 0.8399    | 0.56     |        | 1600   | 95.700  | 0.0033   |  |  |
| gravel and paved roads; 18%                                 |          |          |           | 1440   | 2.5201    | 0.77     |        | 1605   | 112.800 | 0.0052   |  |  |
| other. Approximately 90%                                    |          |          |           | 1445   | 0.6000    | 0.82     |        | 1615   | 146.100 | 0.0079   |  |  |
| of other is Johnsongrass                                    |          |          |           | 1450   | 1.7999    | 0.97     |        | 1630   | 164.100 | 0.0110   |  |  |
| and weeds in conservation re-                               |          |          |           | 1455   | 1.3200    | 1.08     |        | 1635   | 169.800 | 0.0141   |  |  |
| serve, neither tilled nor                                   |          |          |           | 1507   | 0.2000    | 1.12     |        | 1640   | 172.500 | 0.0174   |  |  |
| grazed.   |          |          |           | 1510   | 2.4002    | 1.24     |        | 1645   | 174.800 | 0.0208   |  |  |
|   |          |          |           | 1515   | 0.6000    | 1.29     |        | 1700   | 188.400 | 0.0244   |  |  |
|   |          |          |           | 1520   | 0.0       | 1.29     |        | 1715   | 197.400 | 0.0282   |  |  |
|   |          |          |           | 1530   | 0.4200    | 1.36     |        | 1730   | 208.700 | 0.0322   |  |  |
|   |          |          |           | 1540   | 0.3000    | 1.41     |        | 1745   | 224.200 | 0.0365   |  |  |
|   |          |          |           | 1550   | 0.3000    | 1.46     |        | 1800   | 240.500 | 0.0411   |  |  |
|   |          |          |           | 1900   | 0.0       | 1.46     |        | 1805   | 249.200 | 0.0456   |  |  |
|   |          |          |           | 1930   | 0.0600    | 1.49     |        | 1810   | 256.200 | 0.0503   |  |  |
|   |          |          |           | 2030   | 0.0       | 1.49     |        | 1815   | 267.600 | 0.0554   |  |  |
|   |          |          |           | 2100   | 0.0600    | 1.52     |        | 1830   | 313.600 | 0.0613   |  |  |
|   |          |          |           | 2200   | 0.0500    | 1.57     |        | 1845   | 373.099 | 0.0684   |  |  |
|   |          |          |           | 2400   | 0.0       | 1.57     |        | 1900   | 429.398 | 0.0766   |  |  |
|   |          |          | 10-31     | 40     | 0.0       | 1.57     |        | 1915   | 460.398 | 0.0855   |  |  |
|   |          |          |           | 100    | 0.1200    | 1.61     |        | 1920   | 468.398 | 0.0941   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

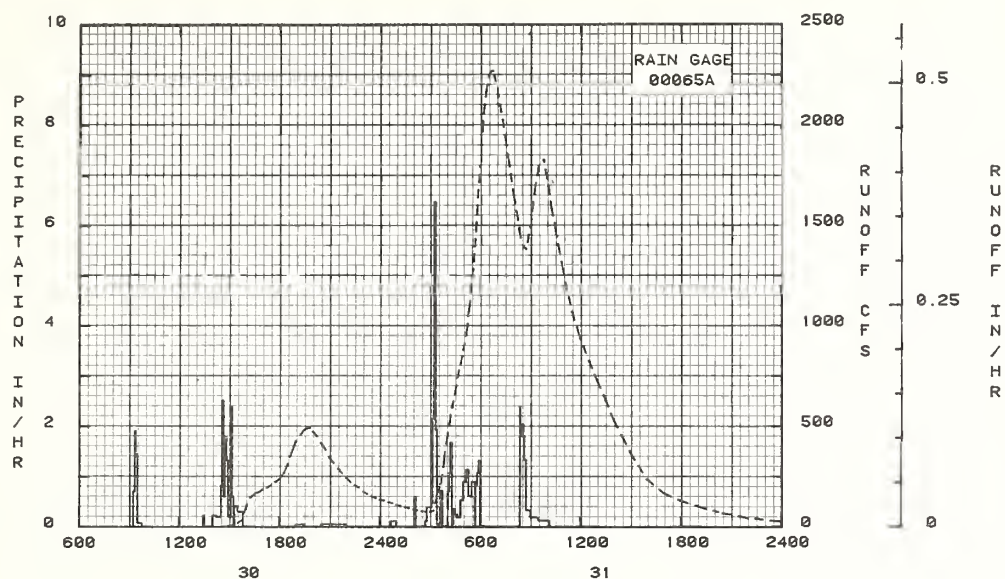
| 1974 SELECTED RUNOFF EVENT                         |                      |                    | RIESEL (WACO), TEXAS WATERSHED G |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                              |                      |                    | RAINFALL                         |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                                     | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - NOVEMBER 1, 1974 (CONTINUED) |                      |                    |                                  |                |                      |                  |                |                |               |                  |
| 10-31  |                      |                    | 205                              |                | 0.0                  | 1.61             | 10-30          | 1925           | 476.500       | 0.1029           |
|  |                      |                    | 210                              |                | 0.6000               | 1.66             |                | 1930           | 485.100       | 0.1123           |
|  |                      |                    | 245                              |                | 0.0                  | 1.66             |                | 1935           | 491.099       | 0.1213           |
|  |                      |                    | 250                              |                | 0.1199               | 1.67             |                | 1940           | 494.100       | 0.1305           |
|  |                      |                    | 305                              |                | 0.4000               | 1.77             |                | 1945           | 495.000       | 0.1401           |
|  |                      |                    | 310                              |                | 0.4799               | 1.81             |                | 1950           | 492.100       | 0.1493           |
|  |                      |                    | 315                              |                | 2.1601               | 1.99             |                | 2000           | 471.300       | 0.1676           |
|  |                      |                    | 320                              |                | 6.4799               | 2.53             |                | 2015           | 449.300       | 0.1936           |
|  |                      |                    | 325                              |                | 1.9200               | 2.69             |                | 2030           | 416.300       | 0.2181           |
|  |                      |                    | 340                              |                | 0.0400               | 2.70             |                | 2045           | 381.100       | 0.2407           |
|  |                      |                    | 345                              |                | 0.7200               | 2.76             |                | 2100           | 341.500       | 0.2612           |
|  |                      |                    | 405                              |                | 0.0                  | 2.76             |                | 2115           | 316.000       | 0.2798           |
|  |                      |                    | 410                              |                | 0.7202               | 2.82             |                | 2130           | 289.000       | 0.2969           |
|  |                      |                    | 415                              |                | 1.0800               | 2.91             |                | 2145           | 264.000       | 0.3125           |
|  |                      |                    | 420                              |                | 1.6800               | 3.05             |                | 2200           | 240.900       | 0.3268           |
|  |                      |                    | 425                              |                | 0.0                  | 3.05             |                | 2215           | 222.300       | 0.3399           |
|  |                      |                    | 430                              |                | 0.3600               | 3.08             |                | 2230           | 205.800       | 0.3521           |
|  |                      |                    | 440                              |                | 0.2400               | 3.12             |                | 2245           | 195.300       | 0.3634           |
|  |                      |                    | 450                              |                | 0.1800               | 3.15             |                | 2300           | 175.100       | 0.3739           |
|  |                      |                    | 500                              |                | 0.5401               | 3.24             |                | 2315           | 162.100       | 0.3834           |
|  |                      |                    | 510                              |                | 0.9000               | 3.39             |                | 2330           | 151.700       | 0.3923           |
|  |                      |                    | 520                              |                | 1.1400               | 3.58             |                | 2345           | 141.700       | 0.4006           |
|  |                      |                    | 530                              |                | 0.6000               | 3.68             |                | 2400           | 134.300       | 0.4084           |
|  |                      |                    | 540                              |                | 0.9000               | 3.83             | 10-31          | 15             | 128.400       | 0.4159           |
|  |                      |                    | 545                              |                | 0.0                  | 3.83             |                | 30             | 121.900       | 0.4230           |
|  |                      |                    | 550                              |                | 0.8399               | 3.90             |                | 45             | 116.100       | 0.4297           |
|  |                      |                    | 555                              |                | 1.0801               | 3.99             |                | 100            | 110.000       | 0.4361           |
|  |                      |                    | 600                              |                | 1.3200               | 4.10             |                | 115            | 101.500       | 0.4421           |
|  |                      |                    | 823                              |                | 0.0                  | 4.10             |                | 130            | 95.600        | 0.4477           |
|  |                      |                    | 825                              |                | 2.4001               | 4.18             |                | 145            | 91.400        | 0.4529           |
|  |                      |                    | 830                              |                | 1.7999               | 4.33             |                | 200            | 86.100        | 0.4580           |
|  |                      |                    | 835                              |                | 2.0400               | 4.50             |                | 215            | 81.500        | 0.4627           |
|  |                      |                    | 840                              |                | 1.7999               | 4.65             |                | 230            | 77.400        | 0.4672           |
|  |                      |                    | 845                              |                | 1.3200               | 4.76             |                | 245            | 74.800        | 0.4715           |
|  |                      |                    | 900                              |                | 0.3200               | 4.84             |                | 300            | 72.800        | 0.4757           |
|  |                      |                    | 930                              |                | 0.1800               | 4.93             |                | 315            | 82.200        | 0.4772           |
|  |                      |                    | 1000                             |                | 0.1200               | 4.99             |                | 320            | 120.100       | 0.4791           |
|  |                      |                    | 1010                             |                | 0.1199               | 5.01             |                | 325            | 155.800       | 0.4817           |
|  |                      |                    |                                  |                |                      |                  |                | 330            | 174.700       | 0.4849           |
|  |                      |                    |                                  |                |                      |                  |                | 335            | 194.400       | 0.4883           |
|  |                      |                    |                                  |                |                      |                  |                | 340            | 215.400       | 0.4921           |
|  |                      |                    |                                  |                |                      |                  |                | 345            | 259.398       | 0.4967           |
|  |                      |                    |                                  |                |                      |                  |                | 350            | 317.100       | 0.5021           |
|  |                      |                    |                                  |                |                      |                  |                | 355            | 375.398       | 0.5085           |
|  |                      |                    |                                  |                |                      |                  |                | 400            | 414.300       | 0.5162           |
|  |                      |                    |                                  |                |                      |                  |                | 405            | 468.300       | 0.5244           |
|  |                      |                    |                                  |                |                      |                  |                | 410            | 514.300       | 0.5335           |
|  |                      |                    |                                  |                |                      |                  |                | 415            | 556.500       | 0.5439           |
|  |                      |                    |                                  |                |                      |                  |                | 420            | 596.500       | 0.5546           |
|  |                      |                    |                                  |                |                      |                  |                | 425            | 629.000       | 0.5660           |
|  |                      |                    |                                  |                |                      |                  |                | 430            | 660.300       | 0.5786           |
|  |                      |                    |                                  |                |                      |                  |                | 435            | 706.100       | 0.5913           |
|  |                      |                    |                                  |                |                      |                  |                | 440            | 752.300       | 0.6048           |
|  |                      |                    |                                  |                |                      |                  |                | 445            | 781.898       | 0.6197           |
|  |                      |                    |                                  |                |                      |                  |                | 450            | 811.898       | 0.6345           |
|  |                      |                    |                                  |                |                      |                  |                | 455            | 847.500       | 0.6499           |
|  |                      |                    |                                  |                |                      |                  |                | 500            | 879.800       | 0.6667           |
|  |                      |                    |                                  |                |                      |                  |                | 505            | 913.800       | 0.6834           |
|  |                      |                    |                                  |                |                      |                  |                | 510            | 961.300       | 0.7008           |
|  |                      |                    |                                  |                |                      |                  |                | 515            | 1012.800      | 0.7200           |
|  |                      |                    |                                  |                |                      |                  |                | 520            | 1070.698      | 0.7394           |
|  |                      |                    |                                  |                |                      |                  |                | 525            | 1126.698      | 0.7598           |
|  |                      |                    |                                  |                |                      |                  |                | 530            | 1208.600      | 0.7825           |
|  |                      |                    |                                  |                |                      |                  |                | 535            | 1284.198      | 0.8056           |
|  |                      |                    |                                  |                |                      |                  |                | 540            | 1397.500      | 0.8305           |
|  |                      |                    |                                  |                |                      |                  |                | 545            | 1482.398      | 0.8586           |
|  |                      |                    |                                  |                |                      |                  |                | 550            | 1606.198      | 0.8872           |
|  |                      |                    |                                  |                |                      |                  |                | 555            | 1720.800      | 0.9181           |
|  |                      |                    |                                  |                |                      |                  |                | 600            | 1815.800      | 0.9525           |
|  |                      |                    |                                  |                |                      |                  |                | 605            | 1936.898      | 0.9874           |
|  |                      |                    |                                  |                |                      |                  |                | 610            | 2024.000      | 1.0242           |
|  |                      |                    |                                  |                |                      |                  |                | 615            | 2107.000      | 1.0644           |
|  |                      |                    |                                  |                |                      |                  |                | 620            | 2163.000      | 1.1040           |
|  |                      |                    |                                  |                |                      |                  |                | 625            | 2204.000      | 1.1446           |
|  |                      |                    |                                  |                |                      |                  |                | 630            | 2244.000      | 1.1879           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.



| 1974 SELECTED RUNOFF EVENT                         |          |          | RIESEL (WACO), TEXAS WATERSHED G |        |           |          |        |        |          |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|----------|----------|
| ANTECEDENT CONDITIONS                              |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |          |          |
| Date   | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate     | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)    | (inches) |
| EVENT OF OCTOBER 30 - NOVEMBER 1, 1974 (CONTINUED) |          |          |                                  |        |           |          |        |        |          |          |
|  |          |          |                                  |        |           |          | 10-31  | 635    | 2264.000 | 1.2297   |
|  |          |          |                                  |        |           |          |        | 640    | 2272.000 | 1.2718   |
|  |          |          |                                  |        |           |          |        | 645    | 2275.000 | 1.3161   |
|  |          |          |                                  |        |           |          |        | 650    | 2246.000 | 1.3581   |
|  |          |          |                                  |        |           |          |        | 655    | 2220.000 | 1.3995   |
|  |          |          |                                  |        |           |          |        | 700    | 2188.000 | 1.4424   |
|  |          |          |                                  |        |           |          |        | 705    | 2142.000 | 1.4826   |
|  |          |          |                                  |        |           |          |        | 715    | 2065.000 | 1.5232   |
|  |          |          |                                  |        |           |          |        | 730    | 1935.000 | 1.5612   |
|  |          |          |                                  |        |           |          |        | 745    | 1795.000 | 1.5966   |
|  |          |          |                                  |        |           |          |        | 800    | 1650.000 | 1.6294   |
|  |          |          |                                  |        |           |          |        | 815    | 1526.000 | 1.6595   |
|  |          |          |                                  |        |           |          |        | 820    | 1477.999 | 1.6874   |
|  |          |          |                                  |        |           |          |        | 825    | 1436.999 | 1.7144   |
|  |          |          |                                  |        |           |          |        | 830    | 1400.000 | 1.7420   |
|  |          |          |                                  |        |           |          |        | 845    | 1381.000 | 1.7689   |
|  |          |          |                                  |        |           |          |        | 900    | 1499.000 | 1.7976   |
|  |          |          |                                  |        |           |          |        | 910    | 1620.000 | 1.8272   |
|  |          |          |                                  |        |           |          |        | 915    | 1678.000 | 1.8593   |
|  |          |          |                                  |        |           |          |        | 930    | 1805.000 | 1.8940   |
|  |          |          |                                  |        |           |          |        | 945    | 1830.000 | 1.9295   |
|  |          |          |                                  |        |           |          |        | 950    | 1819.000 | 1.9634   |
|  |          |          |                                  |        |           |          |        | 955    | 1764.000 | 1.9967   |
|  |          |          |                                  |        |           |          |        | 1000   | 1732.000 | 2.0307   |
|  |          |          |                                  |        |           |          |        | 1015   | 1585.000 | 2.0620   |
|  |          |          |                                  |        |           |          |        | 1030   | 1480.000 | 2.0912   |
|  |          |          |                                  |        |           |          |        | 1045   | 1356.000 | 2.1714   |
|  |          |          |                                  |        |           |          |        | 1100   | 1252.000 | 2.2453   |
|  |          |          |                                  |        |           |          |        | 1130   | 1062.999 | 2.3081   |
|  |          |          |                                  |        |           |          |        | 1200   | 931.000  | 2.3622   |
|  |          |          |                                  |        |           |          |        | 1230   | 824.000  | 2.4102   |
|  |          |          |                                  |        |           |          |        | 1300   | 721.000  | 2.4526   |
|  |          |          |                                  |        |           |          |        | 1330   | 629.000  | 2.4896   |
|  |          |          |                                  |        |           |          |        | 1400   | 525.000  | 2.5208   |
|  |          |          |                                  |        |           |          |        | 1430   | 444.000  | 2.5470   |
|  |          |          |                                  |        |           |          |        | 1500   | 365.000  | 2.5686   |
|  |          |          |                                  |        |           |          |        | 1600   | 232.000  | 2.5826   |
|  |          |          |                                  |        |           |          |        | 1700   | 163.000  | 2.5922   |
|  |          |          |                                  |        |           |          |        | 1800   | 129.000  | 2.5997   |
|  |          |          |                                  |        |           |          |        | 1900   | 101.000  | 2.6056   |
|  |          |          |                                  |        |           |          |        | 1930   | 88.300   | 2.6107   |
|  |          |          |                                  |        |           |          |        | 2000   | 76.800   | 2.6152   |
|  |          |          |                                  |        |           |          |        | 2015   | 71.900   | 2.6194   |
|  |          |          |                                  |        |           |          |        | 2030   | 67.300   | 2.6234   |
|  |          |          |                                  |        |           |          |        | 2100   | 58.400   | 2.6268   |
|  |          |          |                                  |        |           |          |        | 2200   | 42.200   | 2.6321   |
|  |          |          |                                  |        |           |          |        | 2400   | 23.630   | 2.6349   |
|  |          |          |                                  |        |           |          | 11- 1  | 130    | 20.016   | 2.6372   |
|  |          |          |                                  |        |           |          |        | 500    | 14.359   | 2.6407   |
|  |          |          |                                  |        |           |          |        | 1030   | 9.572    | 2.6441   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002264.



EVENT OF OCTOBER 30 - NOVEMBER 1, 1974

RIESEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SR of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 27 sec. N.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RISSEL (WACO), TEXAS |       |          |       | WATERSHED W-1 |       |        |       |        |        |
|---|---|-------------------|-------|--------|-------|---------|-------|----------------------|-------|----------|-------|---------------|-------|--------|-------|--------|--------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                  | Aug   | Sep      | Oct   | Nov           | Dec   | Annual |       |        |        |
| 1974  | P | 2.18              | 1.06  | 1.61   | 3.31  | 2.25    | 0.46  | 1.50                 | 7.07  | 9.27     | 6.62  | 5.06          | 1.69  | 42.08  |       |        |        |
|   | Q | 0.502             | 0.261 | 0.118  | 0.666 | 0.407   | 0.0   | 0.0                  | 0.030 | 4.908    | 3.525 | 2.568         | 0.413 | 12.499 |       |        |        |
| STA AV  | P | 2.27              | 2.62  | 2.55   | 3.94  | 4.11    | 3.33  | 1.81                 | 2.28  | 2.79     | 3.03  | 2.99          | 2.59  | 34.31  |       |        |        |
|   | Q | 0.529             | 0.587 | 0.761  | 1.019 | 1.122   | 0.678 | 0.123                | 0.092 | 0.230    | 0.333 | 0.464         | 0.531 | 6.469  |       |        |        |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |                      |       |          |       |               |       |        |       |        |        |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours              |       | 12 Hours |       | 1 Day         |       | 2 Days |       | 8 Days |        |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                 | Vol.  | Date     | Vol.  | Date          | Vol.  | Date   | Vol.  | Date   | Vol.   |
| 1974  |   | 9-17              | 1.858 | 9-17   | 1.301 | 9-17    | 1.672 | 10-31                | 2.511 | 10-31    | 3.074 | 10-30         | 3.443 | 10-30  | 3.513 | 9-10   | 3.962  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |                      |       |          |       |               |       |        |       |        |        |
|   |   | 5-1               | 4.510 | 5-1    | 2.990 | 5-1     | 5.570 | 5-1                  | 6.910 | 5-1      | 6.920 | 5-1           | 7.050 | 4-30   | 9.200 | 4-29   | 11.060 |
|   |   | 1944              |       | 1944   |       | 1944    |       | 1944                 |       | 1944     |       | 1944          |       | 1944   |       | 1944   |        |

NOTES: Watershed conditions: 11% sorghum; 85% pasture; 3% roads; and 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Area reported as 174 acres beginning 1969. Previously reported as 176 acres in prior publications. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 75A, 89, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) RIESEL (WACO), TEXAS WATERSHED W-1 |       |       |       |       |       |      |       |       |       |       |       |       |     |
|--|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-----|
| Day  | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |     |
| 1  | 0.01E | 0.0   | 0.0   | 0.0   | 1.38  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   | 0.0 |
| 3  | 0.04E | 0.0   | 0.0   | 0.0   | 0.03E | 0.0  | 0.0   | 0.07E | 0.68  | 0.0   | 0.0   | 0.0   | 0.0 |
| 4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.29  | 0.0   | 0.0 |
| 5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.69  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.17E | 0.0 |
| 6  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 7  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.79  | 0.0   | 0.0 |
| 8  | 0.02E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.31  | 0.0   | 0.0   | 0.04  | 0.0   | 0.0 |
| 9  | 0.02E | 0.0   | 0.05E | 0.0   | 0.0   | 0.22 | 0.0   | 0.0   | 0.42  | 0.0   | 0.06  | 0.0   | 0.0 |
| 10   | 0.20E | 0.0   | 0.27  | 0.0   | 0.15E | 0.0  | 0.0   | 0.0   | 1.07  | 0.0   | 0.48  | 0.74  | 0.0 |
| 11   | 0.0   | 0.0   | 0.01E | 1.03  | 0.0   | 0.0  | 0.05E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 12   | 0.0   | 0.0   | 0.21  | 0.0   | 0.0   | 0.24 | 0.0   | 0.0   | 0.66  | 0.0   | 0.0   | 0.0   | 0.0 |
| 13   | 0.05E | 0.0   | 0.0   | 1.45  | 0.0   | 0.0  | 0.0   | 0.0   | 1.17  | 0.0   | 0.0   | 0.0   | 0.0 |
| 14   | 0.0   | 0.07E | 0.32  | 0.0   | 0.0   | 0.0  | 0.18  | 0.0   | 0.48  | 0.86  | 0.0   | 0.0   | 0.0 |
| 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.26E | 0.0   | 0.94  | 0.0   | 0.0   | 0.0   | 0.0 |
| 17   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.42  | 0.0   | 0.0   | 0.0   | 0.0 |
| 18   | 0.41  | 0.17  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 20   | 0.0   | 0.0   | 0.45  | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 21   | 0.0   | 0.51  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.17E | 0.0   | 0.0   | 0.0   | 0.0 |
| 22   | 0.0   | 0.0   | 0.0   | 0.45  | 0.0   | 0.0  | 0.0   | 1.73  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 |
| 23   | 0.31  | 0.31  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 2.72  | 0.0   | 0.0 |
| 24   | 0.34  | 0.0   | 0.30  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.08  | 0.16E | 0.28  | 0.31  | 0.0 |
| 25   | 0.47  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.15E | 0.15  | 0.0   | 0.0   | 0.0   | 0.0 |
| 26   | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.30E | 2.12  | 0.03E | 0.0   | 0.0   | 0.10E | 0.0 |
| 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.10  | 0.0   | 0.0   | 0.0   | 0.07E | 0.0 |
| 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.98  | 0.0   | 0.64  | 0.0   | 0.05E | 0.0 |
| 29   | 0.0   | 0.0   | 0.0   | 0.13E | 0.0   | 0.0  | 0.0   | 0.67  | 0.0   | 0.0   | 0.39  | 0.05E | 0.0 |
| 30   | 0.0   | 0.0   | 0.0   | 0.25  | 0.0   | 0.0  | 0.0   | 0.94  | 0.0   | 1.51  | 0.0   | 0.06E | 0.0 |
| 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.64  | 0.0   | 0.0   | 3.45  | 0.0   | 0.14E | 0.0 |
| TOTAL  | 2.18  | 1.06  | 1.61  | 3.31  | 2.25  | 0.46 | 1.50  | 7.07  | 9.27  | 6.62  | 5.06  | 1.69  |     |
| STA AV   | 2.27  | 2.62  | 2.55  | 3.94  | 4.11  | 3.33 | 1.81  | 2.28  | 2.79  | 3.03  | 2.99  | 2.59  |     |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 89, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 37 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) |        |        |        |        |        | RIESEL (WACO), TEXAS WATERSHED W-1 |       |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|------------------------------------|-------|--------|--------|--------|--------|--------|
| Day                             | Jan    | Feb    | Mar    | Apr    | May    | Jun                                | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1                               | 0.017  | 0.036  | 0.029  | 0.012  | 2.279  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.004  | 0.136  | 0.034  |
| 2                               | 0.020  | 0.035  | 0.026  | 0.012  | 0.044  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.004  | 0.034  | 0.033  |
| 3                               | 0.017  | 0.026  | 0.025  | 0.010  | 0.018  | 0.0                                | 0.0   | 0.0    | 0.044  | 0.003  | 0.019  | 0.033  |
| 4                               | 0.017  | 0.027  | 0.026  | 0.007  | 0.018  | 0.0                                | 0.0   | 0.0    | 0.002  | 0.004  | 0.035  | 0.031  |
| 5                               | 0.018  | 0.030  | 0.025  | 0.008  | 0.376  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.004  | 0.020  | 0.048  |
| 6                               | 0.018  | 0.029  | 0.025  | 0.008  | 0.042  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.005  | 0.015  | 0.050  |
| 7                               | 0.018  | 0.025  | 0.022  | 0.007  | 0.017  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.006  | 1.403  | 0.032  |
| 8                               | 0.020  | 0.024  | 0.021  | 0.006  | 0.015  | 0.0                                | 0.0   | 0.0    | 0.0    | 0.004  | 0.229  | 0.024  |
| 9                               | 0.020  | 0.024  | 0.023  | 0.007  | 0.015  | 0.0                                | 0.0   | 0.0    | 0.001  | 0.004  | 0.056  | 0.027  |
| 10                              | 0.026  | 0.025  | 0.035  | 0.010  | 0.023  | 0.0                                | 0.0   | 0.0    | 0.665  | 0.004  | 1.435  | 1.228  |
| 11                              | 0.019  | 0.027  | 0.022  | 0.197  | 0.016  | 0.0                                | 0.0   | 0.0    | 0.034  | 0.004  | 0.113  | 0.447  |
| 12                              | 0.015  | 0.028  | 0.030  | 0.020  | 0.012  | 0.0                                | 0.0   | 0.0    | 0.079  | 0.004  | 0.032  | 0.054  |
| 13                              | 0.019  | 0.029  | 0.020  | 0.996  | 0.013  | 0.0                                | 0.0   | 0.0    | 2.618  | 0.002  | 0.025  | 0.042  |
| 14                              | 0.019  | 0.033  | 0.026  | 3.320  | 0.014  | 0.0                                | 0.0   | 0.0    | 1.892  | 0.026  | 0.018  | 0.041  |
| 15                              | 0.017  | 0.027  | 0.044  | 0.026  | 0.013  | 0.0                                | 0.0   | 0.0    | 0.142  | 0.010  | 0.020  | 0.038  |
| 16                              | 0.018  | 0.025  | 0.018  | 0.013  | 0.012  | 0.0                                | 0.0   | 0.0    | 0.021  | 0.004  | 0.024  | 0.033  |
| 17                              | 0.019  | 0.025  | 0.017  | 0.012  | 0.008  | 0.0                                | 0.0   | 0.0    | 22.591 | 0.004  | 0.027  | 0.031  |
| 18                              | 0.032  | 0.031  | 0.019  | 0.014  | 0.005  | 0.0                                | 0.0   | 0.0    | 1.051  | 0.003  | 0.028  | 0.031  |
| 19                              | 0.140  | 0.023  | 0.016  | 0.014  | 0.004  | 0.0                                | 0.0   | 0.0    | 0.053  | 0.003  | 0.029  | 0.031  |
| 20                              | 0.021  | 0.025  | 0.148  | 0.016  | 0.004  | 0.0                                | 0.0   | 0.0    | 0.014  | 0.003  | 0.019  | 0.029  |
| 21                              | 0.018  | 1.155  | 0.057  | 0.015  | 0.006  | 0.0                                | 0.0   | 0.0    | 0.014  | 0.002  | 0.020  | 0.028  |
| 22                              | 0.018  | 0.045  | 0.021  | 0.056  | 0.006  | 0.0                                | 0.0   | 0.0    | 0.007  | 0.002  | 0.020  | 0.033  |
| 23                              | 0.066  | 0.029  | 0.016  | 0.013  | 0.004  | 0.0                                | 0.0   | 0.0    | 0.004  | 0.003  | 10.235 | 0.035  |
| 24                              | 0.364  | 0.020  | 0.024  | 0.010  | 0.002  | 0.0                                | 0.0   | 0.0    | 0.007  | 0.005  | 4.381  | 0.068  |
| 25                              | 0.359  | 0.023  | 0.025  | 0.009  | 0.001  | 0.0                                | 0.0   | 0.0    | 0.018  | 0.005  | 0.053  | 0.059  |
| 26                              | 2.108  | 0.027  | 0.021  | 0.010  | 0.003  | 0.0                                | 0.0   | 0.0    | 0.012  | 0.004  | 0.034  | 0.054  |
| 27                              | 0.081  | 0.027  | 0.021  | 0.009  | 0.002  | 0.0                                | 0.0   | 0.0    | 0.010  | 0.003  | 0.031  | 0.060  |
| 28                              | 0.043  | 0.029  | 0.022  | 0.009  | 0.001  | 0.0                                | 0.0   | 0.0    | 0.012  | 0.018  | 0.030  | 0.059  |
| 29                              | 0.035  |        | 0.014  | 0.012  | 0.0    | 0.0                                | 0.0   | 0.0    | 0.007  | 0.009  | 0.176  | 0.065  |
| 30                              | 0.034  |        | 0.012  | 0.015  | 0.0    | 0.0                                | 0.0   | 0.215  | 0.003  | 2.600  | 0.076  | 0.088  |
| 31                              | 0.033  |        | 0.014  |        | 0.0    |                                    | 0.0   | 0.003  |        | 23.015 |        | 0.156  |
| MEAN                            | 0.1184 | 0.0682 | 0.0278 | 0.1624 | 0.0959 | 0.0                                | 0.0   | 0.0070 | 0.9767 | 0.8314 | 0.6257 | 0.0975 |
| INCRS                           | 0.502  | 0.261  | 0.118  | 0.666  | 0.407  | 0.0                                | 0.0   | 0.030  | 4.008  | 3.525  | 2.568  | 0.413  |
| STA AV                          | 0.529  | 0.587  | 0.761  | 1.019  | 1.122  | 0.678                              | 0.123 | 0.092  | 0.230  | 0.333  | 0.464  | 0.531  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 37 yr period.

| 1974 SELECTED RUNOFF EVENT   |          |          |          |        |           | RIESEL (WACO), TEXAS WATERSHED W-1 |        |        |        |          |
|--|----------|----------|----------|--------|-----------|------------------------------------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           | RUNOFF                             |        |        |        |          |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.                               | Date   | Time   | Rate   | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)                           | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974   |          |          |          |        |           |                                    |        |        |        |          |
| RG 000W2A  |          |          |          |        |           |                                    |        |        |        |          |
| 10-30  | 0.0      | 0.002    | 10-30    | 910    | 0.0       | 0.0                                | 10-30  | 1157   | 0.070  | 0.0      |
|  |          |          |          | 915    | 0.3600    | 0.03                               |        | 1227   | 0.092  | 0.0003   |
|  |          |          |          | 920    | 1.9200    | 0.19                               |        | 1257   | 0.132  | 0.0006   |
|  |          |          |          | 925    | 2.1599    | 0.37                               |        | 1327   | 0.132  | 0.0009   |
|  |          |          |          | 935    | 0.1800    | 0.40                               |        | 1357   | 0.170  | 0.0014   |
| WATERSHED CONDITIONS:<br>11% sorghum; 85% pasture,<br>Bermudagrass, good cover<br>moderately grazed; 3% gravel<br>roads; 1% Johnsongrass and<br>weeds, not tilled or grazed. |          |          |          |        |           |                                    |        |        |        |          |
|  |          |          |          | 1335   | 0.0       | 0.40                               |        | 1417   | 0.203  | 0.0017   |
|  |          |          |          | 1405   | 0.1000    | 0.45                               |        | 1430   | 0.245  | 0.0018   |
|  |          |          |          | 1425   | 0.1800    | 0.51                               |        | 1432   | 0.312  | 0.0018   |
|  |          |          |          | 1430   | 1.6800    | 0.65                               |        | 1434   | 0.384  | 0.0019   |
|  |          |          |          | 1435   | 2.2800    | 0.84                               |        | 1440   | 0.423  | 0.0020   |
|  |          |          |          | 1440   | 0.9600    | 0.92                               |        | 1447   | 0.661  | 0.0022   |
|  |          |          |          | 1445   | 0.8401    | 0.99                               |        | 1502   | 0.820  | 0.0026   |
|  |          |          |          | 1450   | 1.5599    | 1.12                               |        | 1517   | 1.540  | 0.0033   |
|  |          |          |          | 1455   | 1.3200    | 1.23                               |        | 1527   | 2.256  | 0.0043   |
|  |          |          |          | 1505   | 0.4200    | 1.30                               |        | 1532   | 3.106  | 0.0055   |
|  |          |          |          | 1515   | 0.1800    | 1.33                               |        | 1534   | 3.940  | 0.0062   |
|  |          |          |          | 1525   | 0.1800    | 1.36                               |        | 1535   | 5.768  | 0.0066   |
|  |          |          |          | 1535   | 0.3000    | 1.41                               |        | 1536   | 9.683  | 0.0073   |
|  |          |          |          | 1545   | 0.3600    | 1.47                               |        | 1537   | 11.885 | 0.0083   |
|  |          |          |          | 1555   | 0.1800    | 1.50                               |        | 1538   | 13.329 | 0.0096   |
|  |          |          |          | 1905   | 0.0       | 1.50                               |        | 1540   | 15.326 | 0.0122   |
|  |          |          |          | 1935   | 0.0600    | 1.53                               |        | 1542   | 16.248 | 0.0153   |
|  |          |          |          | 2035   | 0.0       | 1.53                               |        | 1547   | 18.560 | 0.0233   |
|  |          |          |          | 2135   | 0.0700    | 1.60                               |        | 1552   | 19.883 | 0.0322   |
|  |          |          |          | 2400   | 0.0       | 1.60                               |        | 1557   | 20.948 | 0.0421   |
|  |          |          | 10-31    | 35     | 0.0       | 1.60                               |        | 1602   | 21.166 | 0.0518   |
|  |          |          |          | 105    | 0.0600    | 1.63                               |        | 1612   | 19.469 | 0.0711   |
|  |          |          |          | 155    | 0.0       | 1.63                               |        | 1622   | 17.972 | 0.0884   |
|  |          |          |          | 205    | 0.4200    | 1.70                               |        | 1627   | 17.827 | 0.0970   |
|  |          |          |          | 235    | 0.0       | 1.70                               |        | 1642   | 19.831 | 0.1064   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.

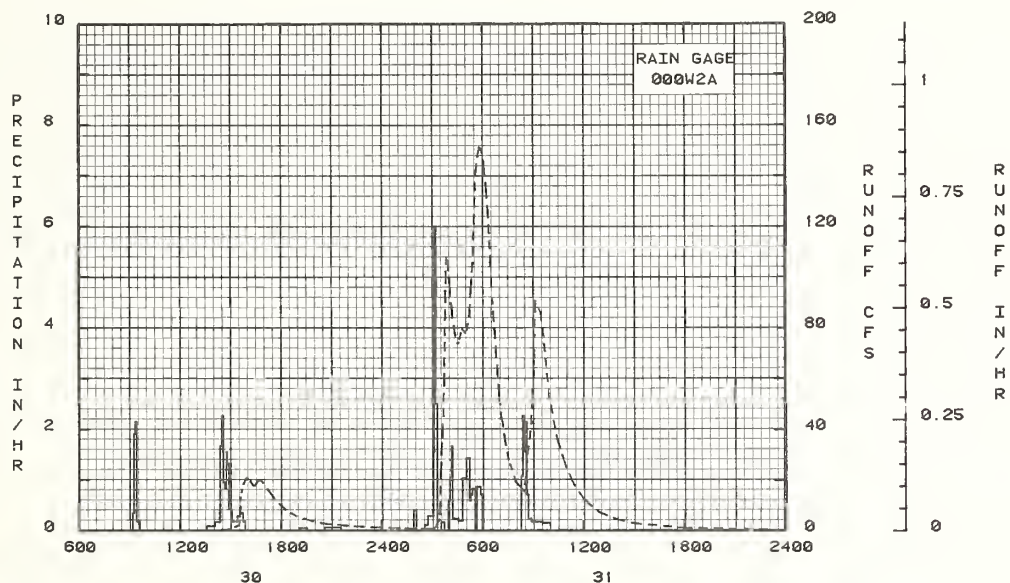


| 1974 SELECTED RUNOFF EVENT                 |                      |                    | BIESEL (WACO), TEXAS WATERSHED #1 |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|-----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL                          |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                    | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                                   |                |                      |                  |                |                |               |                  |
| 10-31                                      | 245                  | 0.1200             | 1.72                              | 10-30          | 1647                 | 20.093           | 0.1156         |                |               |                  |
|  | 255                  | 0.3000             | 1.77                              |                | 1657                 | 18.960           | 0.1341         |                |               |                  |
|  | 305                  | 0.2999             | 1.82                              |                | 1717                 | 15.629           | 0.1665         |                |               |                  |
|  | 310                  | 1.5601             | 1.95                              |                | 1737                 | 12.834           | 0.1931         |                |               |                  |
|  | 315                  | 6.0000             | 2.45                              |                | 1757                 | 10.305           | 0.2150         |                |               |                  |
|  | 320                  | 2.5201             | 2.66                              |                | 1817                 | 8.387            | 0.2325         |                |               |                  |
|  | 335                  | 0.0                | 2.66                              |                | 1837                 | 6.938            | 0.2468         |                |               |                  |
|  | 345                  | 0.1800             | 2.69                              |                | 1857                 | 5.871            | 0.2589         |                |               |                  |
|  | 400                  | 0.0                | 2.69                              |                | 1927                 | 4.682            | 0.2738         |                |               |                  |
|  | 405                  | 0.6000             | 2.74                              |                | 1957                 | 3.714            | 0.2856         |                |               |                  |
| 410  | 1.0800               | 2.83               | 10-31                             | 2027           | 3.004                | 0.2951           |                |                |               |                  |
| 415  | 1.6800               | 2.97               |                                   | 2057           | 2.587                | 0.3030           |                |                |               |                  |
| 435  | 0.2400               | 3.05               |                                   | 2157           | 1.994                | 0.3159           |                |                |               |                  |
| 450  | 0.2000               | 3.10               |                                   | 2257           | 1.586                | 0.3259           |                |                |               |                  |
| 505  | 1.0400               | 3.36               |                                   | 2400           | 1.264                | 0.3344           |                |                |               |                  |
| 510  | 1.4399               | 3.48               |                                   | 57             | 1.055                | 0.3406           |                |                |               |                  |
| 515  | 1.4399               | 3.60               |                                   | 157            | 0.869                | 0.3460           |                |                |               |                  |
| 520  | 0.6000               | 3.65               |                                   | 247            | 0.914                | 0.3502           |                |                |               |                  |
| 525  | 0.7200               | 3.71               |                                   | 302            | 0.999                | 0.3515           |                |                |               |                  |
| 530  | 0.8401               | 3.78               |                                   | 307            | 1.108                | 0.3520           |                |                |               |                  |
| 535  | 0.8399               | 3.85               | 10-31                             | 314            | 1.714                | 0.3523           |                |                |               |                  |
| 540  | 0.0                  | 3.85               |                                   | 316            | 2.215                | 0.3527           |                |                |               |                  |
| 555  | 0.8800               | 4.07               |                                   | 320            | 3.067                | 0.3533           |                |                |               |                  |
| 600  | 0.7202               | 4.13               |                                   | 327            | 4.177                | 0.3551           |                |                |               |                  |
| 605  | 0.2399               | 4.15               |                                   | 328            | 4.571                | 0.3555           |                |                |               |                  |
| 820  | 0.0                  | 4.15               |                                   | 329            | 6.829                | 0.3560           |                |                |               |                  |
| 825  | 1.0801               | 4.24               |                                   | 330            | 11.639               | 0.3570           |                |                |               |                  |
| 830  | 2.2798               | 4.43               |                                   | 333            | 23.020               | 0.3588           |                |                |               |                  |
| 835  | 1.5601               | 4.56               |                                   | 334            | 27.154               | 0.3616           |                |                |               |                  |
| 840  | 2.1601               | 4.74               |                                   | 337            | 34.880               | 0.3646           |                |                |               |                  |
| 845  | 0.7200               | 4.80               | 10-31                             | 338            | 36.963               | 0.3685           |                |                |               |                  |
| 855  | 0.2400               | 4.84               |                                   | 340            | 42.277               | 0.3722           |                |                |               |                  |
| 905  | 0.1800               | 4.87               |                                   | 345            | 59.170               | 0.3783           |                |                |               |                  |
| 935  | 0.1800               | 4.96               |                                   | 348            | 84.150               | 0.3854           |                |                |               |                  |
| 1005                                       | 0.1600               | 5.04               |                                   | 349            | 91.742               | 0.3950           |                |                |               |                  |
|  |                      |                    |                                   | 351            | 102.277              | 0.4038           |                |                |               |                  |
|  |                      |                    |                                   | 353            | 106.682              | 0.4155           |                |                |               |                  |
|  |                      |                    |                                   | 355            | 108.245              | 0.4344           |                |                |               |                  |
|  |                      |                    |                                   | 357            | 106.562              | 0.4557           |                |                |               |                  |
|  |                      |                    |                                   | 400            | 102.395              | 0.4856           |                |                |               |                  |
|  |                      |                    | 10-31                             | 403            | 98.524               | 0.5121           |                |                |               |                  |
|  |                      |                    |                                   | 406            | 92.765               | 0.5395           |                |                |               |                  |
|  |                      |                    |                                   | 410            | 88.810               | 0.5734           |                |                |               |                  |
|  |                      |                    |                                   | 415            | 83.821               | 0.6152           |                |                |               |                  |
|  |                      |                    |                                   | 420            | 80.662               | 0.6532           |                |                |               |                  |
|  |                      |                    |                                   | 425            | 76.910               | 0.6897           |                |                |               |                  |
|  |                      |                    |                                   | 432            | 73.957               | 0.7395           |                |                |               |                  |
|  |                      |                    |                                   | 435            | 74.271               | 0.7607           |                |                |               |                  |
|  |                      |                    |                                   | 440            | 75.745               | 0.7953           |                |                |               |                  |
|  |                      |                    |                                   | 445            | 78.189               | 0.8326           |                |                |               |                  |
|  |                      |                    | 10-31                             | 450            | 79.476               | 0.8691           |                |                |               |                  |
|  |                      |                    |                                   | 500            | 78.082               | 0.9436           |                |                |               |                  |
|  |                      |                    |                                   | 505            | 79.261               | 0.9800           |                |                |               |                  |
|  |                      |                    |                                   | 510            | 81.638               | 1.0172           |                |                |               |                  |
|  |                      |                    |                                   | 515            | 86.136               | 1.0578           |                |                |               |                  |
|  |                      |                    |                                   | 520            | 93.335               | 1.0993           |                |                |               |                  |
|  |                      |                    |                                   | 523            | 99.107               | 1.1268           |                |                |               |                  |
|  |                      |                    |                                   | 526            | 105.723              | 1.1539           |                |                |               |                  |
|  |                      |                    |                                   | 528            | 112.008              | 1.1754           |                |                |               |                  |
|  |                      |                    |                                   | 530            | 118.052              | 1.1982           |                |                |               |                  |
|  |                      |                    | 10-31                             | 532            | 124.849              | 1.2196           |                |                |               |                  |
|  |                      |                    |                                   | 534            | 131.267              | 1.2450           |                |                |               |                  |
|  |                      |                    |                                   | 536            | 137.409              | 1.2686           |                |                |               |                  |
|  |                      |                    |                                   | 538            | 141.383              | 1.2962           |                |                |               |                  |
|  |                      |                    |                                   | 540            | 144.593              | 1.3214           |                |                |               |                  |
|  |                      |                    |                                   | 545            | 147.829              | 1.3922           |                |                |               |                  |
|  |                      |                    |                                   | 550            | 151.228              | 1.4613           |                |                |               |                  |
|  |                      |                    |                                   | 555            | 150.546              | 1.5311           |                |                |               |                  |
|  |                      |                    |                                   | 600            | 148.778              | 1.6035           |                |                |               |                  |
|  |                      |                    |                                   | 605            | 145.938              | 1.6717           |                |                |               |                  |
|  |                      |                    | 10-31                             | 610            | 140.054              | 1.7378           |                |                |               |                  |
|  |                      |                    |                                   | 615            | 134.129              | 1.8041           |                |                |               |                  |
|  |                      |                    |                                   | 620            | 126.379              | 1.8643           |                |                |               |                  |
|  |                      |                    |                                   | 625            | 117.306              | 1.9207           |                |                |               |                  |
|  |                      |                    |                                   | 630            | 105.963              | 1.9747           |                |                |               |                  |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.005700.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED W-1 |        |           |          |        |        |        |          |
|--|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                           |        |           | RUNOFF   |        |        |        |          |
| Date                                       | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |        |          |
|  |          |          |                                    | 10-31  |           |          |        | 635    | 95.398 | 2.0213   |
|  |          |          |                                    |        |           |          |        | 640    | 85.583 | 2.0631   |
|  |          |          |                                    |        |           |          |        | 645    | 78.832 | 2.1029   |
|  |          |          |                                    |        |           |          |        | 650    | 71.253 | 2.1376   |
|  |          |          |                                    |        |           |          |        | 655    | 63.764 | 2.1688   |
|  |          |          |                                    |        |           |          |        | 700    | 55.738 | 2.1977   |
|  |          |          |                                    |        |           |          |        | 705    | 49.826 | 2.2221   |
|  |          |          |                                    |        |           |          |        | 710    | 44.771 | 2.2440   |
|  |          |          |                                    |        |           |          |        | 715    | 41.092 | 2.2648   |
|  |          |          |                                    |        |           |          |        | 720    | 37.368 | 2.2829   |
|  |          |          |                                    |        |           |          |        | 725    | 33.699 | 2.2993   |
|  |          |          |                                    |        |           |          |        | 730    | 30.700 | 2.3149   |
|  |          |          |                                    |        |           |          |        | 735    | 28.171 | 2.3285   |
|  |          |          |                                    |        |           |          |        | 740    | 26.221 | 2.3411   |
|  |          |          |                                    |        |           |          |        | 745    | 24.254 | 2.3533   |
|  |          |          |                                    |        |           |          |        | 800    | 19.335 | 2.3630   |
|  |          |          |                                    |        |           |          |        | 830    | 15.600 | 2.3703   |
|  |          |          |                                    |        |           |          |        | 855    | 42.532 | 2.3774   |
|  |          |          |                                    |        |           |          |        | 905    | 62.382 | 2.3891   |
|  |          |          |                                    |        |           |          |        | 910    | 90.723 | 2.3969   |
|  |          |          |                                    |        |           |          |        | 930    | 85.693 | 2.4399   |
|  |          |          |                                    |        |           |          |        | 1000   | 52.474 | 2.4663   |
|  |          |          |                                    |        |           |          |        | 1030   | 35.676 | 2.4841   |
|  |          |          |                                    |        |           |          |        | 1100   | 25.160 | 2.4966   |
|  |          |          |                                    |        |           |          |        | 1130   | 17.645 | 2.5053   |
|  |          |          |                                    |        |           |          |        | 1200   | 13.094 | 2.5182   |
|  |          |          |                                    |        |           |          |        | 1230   | 9.849  | 2.5280   |
|  |          |          |                                    |        |           |          |        | 1300   | 7.267  | 2.5352   |
|  |          |          |                                    |        |           |          |        | 1400   | 4.721  | 2.5398   |
|  |          |          |                                    |        |           |          |        | 1500   | 3.144  | 2.5497   |
|  |          |          |                                    |        |           |          |        | 1800   | 1.284  | 2.5581   |
|  |          |          |                                    |        |           |          |        | 2400   | 0.380  | 2.5604   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.



EVENT OF OCTOBER 30 - 31, 1974  
RIESEL (WACO), TEXAS WATERSHED W-1

RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 19 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 130.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS WATERSHED W-2        |       |       |       |       |       |        |       |        |        |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|-------|-------|--------|-------|--------|--------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |        |
| 1974  | P | 2.03              | 1.02  | 1.43   | 3.11  | 2.24    | 0.46  | 1.55                                      | 6.74  | 9.40  | 6.50  | 5.34  | 1.57  | 41.39  |       |        |        |
|   | Q | 0.572             | 0.419 | 0.203  | 0.561 | 0.618   | 0.044 | 0.0                                       | 0.089 | 4.651 | 3.169 | 3.005 | 0.797 | 14.128 |       |        |        |
| STA AV  | P | 2.21              | 2.60  | 2.47   | 3.94  | 4.07    | 3.27  | 1.76                                      | 2.36  | 2.80  | 3.00  | 2.97  | 2.54  | 34.00  |       |        |        |
|   | Q | 0.639             | 0.726 | 0.875  | 1.073 | 1.155   | 0.642 | 0.130                                     | 0.089 | 0.230 | 0.327 | 0.507 | 0.666 | 7.060  |       |        |        |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |        |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |        |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.   |
| 1974  |   | 9-17              | 2.194 | 9-17   | 1.615 | 9-17    | 2.080 | 9-17                                      | 2.361 | 10-31 | 2.636 | 9-16  | 3.471 | 9-16   | 3.663 | 9-10   | 4.376  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |        |
|   |   | 5-1               | 4.830 | 5-1    | 2.860 | 5-1     | 5.400 | 5-1                                       | 6.910 | 5-1   | 6.970 | 5-1   | 7.120 | 4-30   | 9.260 | 4-29   | 10.960 |
|   |   | 1944              |       | 1944   |       | 1944    |       | 1944                                      |       | 1944  |       | 1944  |       | 1944   |       | 1944   |        |

NOTES: Watershed conditions: 55% pasture; 23% row grain sorghum; 13% fall planted small grain, largely oats; 3% corn; 5% gravel and paved roads; 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, W-5A, and W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      | RIESEL (WACO), TEXAS WATERSHED W-2 |       |       |       |       |       |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|------------------------------------|-------|-------|-------|-------|-------|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul                                | Aug   | Sep   | Oct   | Nov   | Dec   |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.28  | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   |  |
| 3                                 | 0.03E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0                                | 0.08E | 0.73  | 0.0   | 0.0   | 0.0   |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.27  | 0.0   |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.78  | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.17E |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.76  | 0.0   |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.32  | 0.0   | 0.0   | 0.03E | 0.0   |  |
| 9                                 | 0.01E | 0.0   | 0.02E | 0.0   | 0.0   | 0.23 | 0.0                                | 0.0   | 0.38  | 0.0   | 0.06  | 0.0   |  |
| 10                                | 0.21E | 0.0   | 0.29  | 0.0   | 0.16E | 0.0  | 0.0                                | 0.0   | 1.04  | 0.0   | 0.47  | 0.68  |  |
| 11                                | 0.0   | 0.0   | 0.0   | 1.00  | 0.0   | 0.0  | 0.04E                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 12                                | 0.0   | 0.0   | 0.13E | 0.0   | 0.0   | 0.23 | 0.0                                | 0.0   | 0.66  | 0.0   | 0.0   | 0.0   |  |
| 13                                | 0.04E | 0.0   | 0.0   | 1.26  | 0.0   | 0.0  | 0.0                                | 0.0   | 1.13  | 0.0   | 0.0   | 0.0   |  |
| 14                                | 0.0   | 0.09E | 0.29  | 0.0   | 0.0   | 0.0  | 0.20                               | 0.0   | 0.39  | 0.78  | 0.0   | 0.0   |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.07E                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.48                               | 0.0   | 0.96  | 0.0   | 0.0   | 0.0   |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 3.75  | 0.0   | 0.0   | 0.0   |  |
| 18                                | 0.38  | 0.15  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 20                                | 0.0   | 0.0   | 0.45  | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 21                                | 0.0   | 0.78  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.16E | 0.0   | 0.0   | 0.0   |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.30  | 0.0   | 0.0  | 0.0                                | 1.70  | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 23                                | 0.27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 3.02  | 0.0   |  |
| 24                                | 0.32  | 0.0   | 0.25  | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.05E | 0.15E | 0.34  | 0.25E |  |
| 25                                | 0.43  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.14  | 0.12E | 0.0   | 0.0   | 0.0   |  |
| 26                                | 0.30  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.38E                              | 1.97  | 0.03E | 0.0   | 0.0   | 0.16E |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.17  | 0.0   | 0.0  | 0.0                                | 0.10  | 0.0   | 0.0   | 0.0   | 0.05E |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.90  | 0.0   | 0.56  | 0.0   | 0.05E |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.13E | 0.0   | 0.0  | 0.0                                | 0.63  | 0.0   | 0.0   | 0.38  | 0.05E |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.25  | 0.0   | 0.0  | 0.0                                | 0.90  | 0.0   | 1.39  | 0.0   | 0.05E |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.38                               | 0.0   | 0.0   | 3.62  | 0.11E | 0.0   |  |
| TOTAL                             | 2.03  | 1.02  | 1.43  | 3.11  | 2.24  | 0.46 | 1.55                               | 6.74  | 9.40  | 6.50  | 5.34  | 1.57  |  |
| STA AV                            | 2.21  | 2.60  | 2.47  | 3.94  | 4.07  | 3.27 | 1.76                               | 2.36  | 2.80  | 3.00  | 2.97  | 2.54  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 37 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-2 |        |        |        |        |        |        |       |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.030  | 0.068  | 0.038  | 0.020  | 1.554  | 0.015  | 0.0   | 0.0    | 0.011  | 0.056  | 0.243  | 0.105  |
| 2  | 0.037  | 0.068  | 0.036  | 0.018  | 0.061  | 0.014  | 0.0   | 0.0    | 0.010  | 0.056  | 0.123  | 0.104  |
| 3  | 0.034  | 0.060  | 0.033  | 0.018  | 0.049  | 0.015  | 0.0   | 0.0    | 0.155  | 0.054  | 0.092  | 0.105  |
| 4  | 0.033  | 0.060  | 0.033  | 0.013  | 0.056  | 0.014  | 0.0   | 0.0    | 0.025  | 0.051  | 0.150  | 0.105  |
| 5  | 0.032  | 0.060  | 0.034  | 0.014  | 0.643  | 0.009  | 0.0   | 0.0    | 0.016  | 0.048  | 0.095  | 0.126  |
| 6  | 0.031  | 0.061  | 0.034  | 0.011  | 0.083  | 0.009  | 0.0   | 0.0    | 0.015  | 0.047  | 0.086  | 0.118  |
| 7  | 0.031  | 0.058  | 0.031  | 0.012  | 0.054  | 0.009  | 0.0   | 0.0    | 0.015  | 0.045  | 1.090  | 0.093  |
| 8  | 0.033  | 0.055  | 0.030  | 0.011  | 0.054  | 0.013  | 0.0   | 0.0    | 0.014  | 0.046  | 0.284  | 0.087  |
| 9  | 0.031  | 0.055  | 0.038  | 0.014  | 0.052  | 0.025  | 0.0   | 0.0    | 0.041  | 0.045  | 0.152  | 0.091  |
| 10   | 0.039  | 0.053  | 0.054  | 0.016  | 0.069  | 0.015  | 0.0   | 0.0    | 0.450  | 0.042  | 1.263  | 0.934  |
| 11   | 0.030  | 0.056  | 0.039  | 0.068  | 0.057  | 0.010  | 0.0   | 0.0    | 0.054  | 0.042  | 0.197  | 0.389  |
| 12   | 0.028  | 0.054  | 0.040  | 0.023  | 0.051  | 0.034  | 0.0   | 0.0    | 0.103  | 0.040  | 0.105  | 0.116  |
| 13   | 0.031  | 0.057  | 0.030  | 0.404  | 0.055  | 0.018  | 0.0   | 0.0    | 2.118  | 0.039  | 0.095  | 0.106  |
| 14   | 0.032  | 0.063  | 0.040  | 1.884  | 0.055  | 0.012  | 0.0   | 0.0    | 1.136  | 0.086  | 0.088  | 0.110  |
| 15   | 0.028  | 0.061  | 0.052  | 0.032  | 0.052  | 0.010  | 0.0   | 0.0    | 0.182  | 0.052  | 0.091  | 0.105  |
| 16   | 0.028  | 0.053  | 0.036  | 0.034  | 0.058  | 0.008  | 0.0   | 0.0    | 0.086  | 0.036  | 0.096  | 0.102  |
| 17   | 0.027  | 0.049  | 0.028  | 0.034  | 0.039  | 0.007  | 0.0   | 0.0    | 18.960 | 0.037  | 0.097  | 0.097  |
| 18   | 0.040  | 0.058  | 0.027  | 0.035  | 0.028  | 0.002  | 0.0   | 0.0    | 1.047  | 0.036  | 0.098  | 0.093  |
| 19   | 0.070  | 0.037  | 0.029  | 0.037  | 0.027  | 0.001  | 0.0   | 0.0    | 0.148  | 0.034  | 0.097  | 0.093  |
| 20   | 0.028  | 0.038  | 0.061  | 0.042  | 0.027  | 0.0    | 0.0   | 0.0    | 0.079  | 0.033  | 0.083  | 0.081  |
| 21   | 0.023  | 0.897  | 0.051  | 0.035  | 0.033  | 0.0    | 0.0   | 0.0    | 0.094  | 0.029  | 0.081  | 0.084  |
| 22   | 0.028  | 0.051  | 0.029  | 0.072  | 0.033  | 0.0    | 0.0   | 0.0    | 0.074  | 0.030  | 0.080  | 0.085  |
| 23   | 0.066  | 0.040  | 0.029  | 0.038  | 0.026  | 0.0    | 0.0   | 0.0    | 0.068  | 0.033  | 8.418  | 0.087  |
| 24   | 0.355  | 0.032  | 0.043  | 0.031  | 0.023  | 0.0    | 0.0   | 0.0    | 0.076  | 0.042  | 2.386  | 0.128  |
| 25   | 0.368  | 0.036  | 0.040  | 0.026  | 0.023  | 0.0    | 0.0   | 0.0    | 0.102  | 0.044  | 0.133  | 0.102  |
| 26   | 1.270  | 0.037  | 0.038  | 0.022  | 0.023  | 0.0    | 0.0   | 0.0    | 0.086  | 0.034  | 0.109  | 0.101  |
| 27   | 0.086  | 0.036  | 0.034  | 0.021  | 0.022  | 0.0    | 0.0   | 0.0    | 0.071  | 0.029  | 0.104  | 0.102  |
| 28   | 0.066  | 0.040  | 0.032  | 0.020  | 0.019  | 0.0    | 0.0   | 0.0    | 0.060  | 0.069  | 0.103  | 0.101  |
| 29   | 0.062  |        | 0.027  | 0.026  | 0.015  | 0.0    | 0.0   | 0.040  | 0.053  | 0.042  | 0.245  | 0.108  |
| 30   | 0.062  |        | 0.021  | 0.033  | 0.015  | 0.0    | 0.0   | 0.423  | 0.054  | 1.141  | 0.127  | 0.130  |
| 31   | 0.062  |        | 0.021  |        | 0.017  |        | 0.0   | 0.021  |        | 14.893 |        | 0.165  |
| MEAN   | 0.1007 | 0.0817 | 0.0357 | 0.1022 | 0.1089 | 0.0079 | 0.0   | 0.0156 | 0.8468 | 0.5584 | 0.5471 | 0.1404 |
| INCRES   | 0.572  | 0.419  | 0.203  | 0.561  | 0.618  | 0.044  | 0.0   | 0.089  | 4.651  | 3.169  | 3.005  | 0.797  |
| STA AV   | 0.639  | 0.726  | 0.875  | 1.073  | 1.155  | 0.642  | 0.130 | 0.089  | 0.230  | 0.327  | 0.507  | 0.666  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.183090. Records began July 1937. STA AV based on 37 yr period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-2  |          |          |          |        |           |          |        |        |        |          |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           | RUNOFF   |        |        |        |          |  |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974   |          |          |          |        |           |          |        |        |        |          |  |
| RG 0000W6  |          |          |          |        |           |          |        |        |        |          |  |
| 10-30  | 1.38     | 0.209    | 10-30    | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 0.820  | 0.0      |  |
|  |          |          | 10-31    | 35     | 0.0       | 0.0      | 10-31  | 30     | 0.745  | 0.0030   |  |
|  |          |          |          | 45     | 0.2400    | 0.04     |        | 100    | 0.745  | 0.0058   |  |
|  |          |          |          | 200    | 0.0       | 0.04     |        | 130    | 0.674  | 0.0085   |  |
|  |          |          |          | 205    | 0.3600    | 0.07     |        | 200    | 0.617  | 0.0110   |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |        |          |  |
| 13% fall planted oats; 3% corn; 23% sorghum; 55% pasture, Bermudagrass, good cover, moderately grazed; 5% gravel roads; 1% Johnsongrass, not tilled or grazed. Cropland farmed on contour, not terraced. |          |          |          |        |           |          |        |        |        |          |  |
|  |          |          |          | 240    | 0.0       | 0.07     |        | 230    | 0.710  | 0.0135   |  |
|  |          |          |          | 245    | 0.2401    | 0.09     |        | 302    | 0.805  | 0.0166   |  |
|  |          |          |          | 250    | 0.3600    | 0.12     |        | 307    | 0.820  | 0.0171   |  |
|  |          |          |          | 255    | 0.2401    | 0.14     |        | 310    | 0.978  | 0.0175   |  |
|  |          |          |          | 300    | 0.2401    | 0.16     |        | 320    | 3.505  | 0.0183   |  |
|  |          |          |          | 305    | 0.4799    | 0.20     |        | 325    | 9.998  | 0.0194   |  |
|  |          |          |          | 307    | 0.6001    | 0.22     |        | 332    | 11.013 | 0.0250   |  |
|  |          |          |          | 309    | 1.4996    | 0.27     |        | 336    | 13.205 | 0.0279   |  |
|  |          |          |          | 311    | 4.5003    | 0.42     |        | 337    | 14.670 | 0.0296   |  |
|  |          |          |          | 313    | 5.3998    | 0.60     |        | 338    | 17.645 | 0.0320   |  |
|  |          |          |          | 315    | 6.6000    | 0.82     |        | 340    | 22.479 | 0.0346   |  |
|  |          |          |          | 317    | 4.5003    | 0.97     |        | 345    | 29.649 | 0.0422   |  |
|  |          |          |          | 319    | 1.1998    | 1.01     |        | 348    | 31.765 | 0.0532   |  |
|  |          |          |          | 335    | 0.0       | 1.01     |        | 351    | 34.485 | 0.0660   |  |
|  |          |          |          | 340    | 0.4801    | 1.05     |        | 354    | 36.882 | 0.0798   |  |
|  |          |          |          | 345    | 0.1199    | 1.06     |        | 356    | 38.513 | 0.0888   |  |
|  |          |          |          | 403    | 0.0       | 1.06     |        | 358    | 38.021 | 0.0991   |  |
|  |          |          |          | 408    | 0.4799    | 1.10     |        | 401    | 37.125 | 0.1136   |  |
|  |          |          |          | 411    | 2.4002    | 1.22     |        | 406    | 34.327 | 0.1360   |  |
|  |          |          |          | 415    | 1.7999    | 1.34     |        | 411    | 35.996 | 0.1580   |  |
|  |          |          |          | 419    | 0.1499    | 1.35     |        | 416    | 36.963 | 0.1819   |  |
|  |          |          |          | 423    | 0.4500    | 1.38     |        | 421    | 41.937 | 0.2066   |  |
|  |          |          |          | 433    | 0.3601    | 1.44     |        | 426    | 40.588 | 0.2324   |  |
|  |          |          |          | 443    | 0.1199    | 1.46     |        | 431    | 40.420 | 0.2590   |  |
|  |          |          |          | 455    | 0.4501    | 1.55     |        | 436    | 42.703 | 0.2850   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.

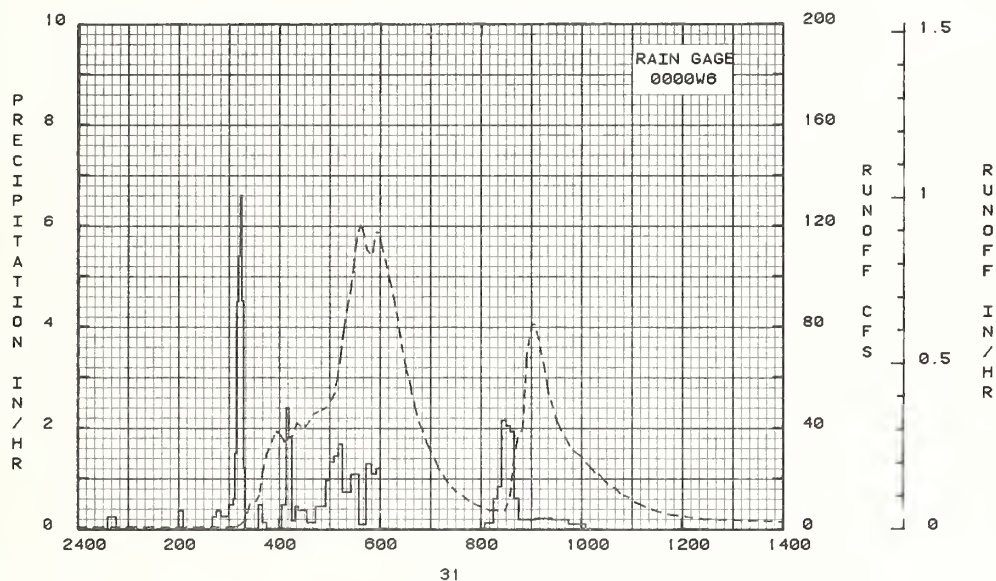


| 1974 SELECTED RUNOFF EVENT                 |                      |                    |                |                |                      | RIESEL (WACO), TEXAS WATERSHED W-2 |                |                |               |                  |
|--|----------------------|--------------------|----------------|----------------|----------------------|------------------------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL       |                |                      | RUNOFF                             |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches)                   | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                |                |                      |                                    |                |                |               |                  |
| 10-31                                      |                      |                    | 500            |                | 0.9598               | 1.63                               | 10-31          | 441            | 45.556        | 0.3126           |
|  |                      |                    | 505            |                | 1.3200               | 1.74                               |                | 446            | 46.610        | 0.3428           |
|  |                      |                    | 510            |                | 1.4401               | 1.86                               |                | 451            | 47.140        | 0.3721           |
|  |                      |                    | 515            |                | 1.6800               | 2.00                               |                | 456            | 48.119        | 0.4019           |
|  |                      |                    | 520            |                | 0.7200               | 2.06                               |                | 501            | 51.098        | 0.4345           |
|  |                      |                    | 525            |                | 0.7200               | 2.12                               |                | 506            | 53.771        | 0.4673           |
|  |                      |                    | 530            |                | 1.0800               | 2.21                               |                | 510            | 62.481        | 0.4818           |
|  |                      |                    | 535            |                | 1.0801               | 2.30                               |                | 512            | 66.561        | 0.4991           |
|  |                      |                    | 543            |                | 0.0750               | 2.31                               |                | 514            | 72.081        | 0.5156           |
|  |                      |                    | 550            |                | 1.2857               | 2.46                               |                | 516            | 77.655        | 0.5357           |
|  |                      |                    | 555            |                | 1.0801               | 2.55                               |                | 518            | 82.836        | 0.5548           |
|  |                      |                    | 600            |                | 1.1999               | 2.65                               |                | 520            | 86.469        | 0.5775           |
|  |                      |                    | 805            |                | 0.0                  | 2.65                               |                | 522            | 90.384        | 0.5986           |
|  |                      |                    | 815            |                | 0.1200               | 2.67                               |                | 524            | 93.221        | 0.6232           |
|  |                      |                    | 820            |                | 0.6000               | 2.72                               |                | 526            | 98.291        | 0.6460           |
|  |                      |                    | 825            |                | 0.8399               | 2.79                               |                | 528            | 103.936       | 0.6731           |
|  |                      |                    | 830            |                | 2.1601               | 2.97                               |                | 530            | 111.033       | 0.7020           |
|  |                      |                    | 835            |                | 2.0400               | 3.14                               |                | 532            | 114.954       | 0.7289           |
|  |                      |                    | 840            |                | 1.9200               | 3.30                               |                | 534            | 118.052       | 0.7601           |
|  |                      |                    | 845            |                | 0.5999               | 3.35                               |                | 536            | 120.177       | 0.7885           |
|  |                      |                    | 855            |                | 0.1800               | 3.38                               |                | 538            | 119.050       | 0.8206           |
|  |                      |                    | 905            |                | 0.1801               | 3.41                               |                | 541            | 115.201       | 0.8625           |
|  |                      |                    | 925            |                | 0.2100               | 3.48                               |                | 544            | 110.181       | 0.9062           |
|  |                      |                    | 945            |                | 0.1800               | 3.54                               |                | 547            | 108.970       | 0.9486           |
|  |                      |                    | 1005           |                | 0.0900               | 3.57                               |                | 551            | 109.575       | 1.0040           |
|  |                      |                    |                |                |                      |                                    |                | 553            | 114.338       | 1.0340           |
|  |                      |                    |                |                |                      |                                    |                | 555            | 117.306       | 1.0616           |
|  |                      |                    |                |                |                      |                                    |                | 557            | 117.306       | 1.0931           |
|  |                      |                    |                |                |                      |                                    |                | 601            | 112.375       | 1.1512           |
|  |                      |                    |                |                |                      |                                    |                | 606            | 106.082       | 1.2196           |
|  |                      |                    |                |                |                      |                                    |                | 611            | 98.291        | 1.2835           |
|  |                      |                    |                |                |                      |                                    |                | 616            | 91.289        | 1.3457           |
|  |                      |                    |                |                |                      |                                    |                | 621            | 82.399        | 1.4000           |
|  |                      |                    |                |                |                      |                                    |                | 624            | 75.745        | 1.4307           |
|  |                      |                    |                |                |                      |                                    |                | 630            | 64.459        | 1.4567           |
|  |                      |                    |                |                |                      |                                    |                | 633            | 60.428        | 1.4790           |
|  |                      |                    |                |                |                      |                                    |                | 635            | 58.497        | 1.4950           |
|  |                      |                    |                |                |                      |                                    |                | 638            | 53.121        | 1.5166           |
|  |                      |                    |                |                |                      |                                    |                | 644            | 44.945        | 1.5349           |
|  |                      |                    |                |                |                      |                                    |                | 647            | 41.514        | 1.5517           |
|  |                      |                    |                |                |                      |                                    |                | 651            | 38.266        | 1.5719           |
|  |                      |                    |                |                |                      |                                    |                | 656            | 33.465        | 1.5943           |
|  |                      |                    |                |                |                      |                                    |                | 701            | 30.399        | 1.6153           |
|  |                      |                    |                |                |                      |                                    |                | 706            | 26.722        | 1.6331           |
|  |                      |                    |                |                |                      |                                    |                | 711            | 23.020        | 1.6487           |
|  |                      |                    |                |                |                      |                                    |                | 716            | 21.016        | 1.6631           |
|  |                      |                    |                |                |                      |                                    |                | 721            | 18.140        | 1.6754           |
|  |                      |                    |                |                |                      |                                    |                | 726            | 16.431        | 1.6862           |
|  |                      |                    |                |                |                      |                                    |                | 731            | 14.498        | 1.6963           |
|  |                      |                    |                |                |                      |                                    |                | 741            | 12.332        | 1.7043           |
|  |                      |                    |                |                |                      |                                    |                | 746            | 11.013        | 1.7120           |
|  |                      |                    |                |                |                      |                                    |                | 751            | 9.998         | 1.7186           |
|  |                      |                    |                |                |                      |                                    |                | 811            | 7.178         | 1.7232           |
|  |                      |                    |                |                |                      |                                    |                | 829            | 7.178         | 1.7258           |
|  |                      |                    |                |                |                      |                                    |                | 835            | 13.260        | 1.7272           |
|  |                      |                    |                |                |                      |                                    |                | 840            | 28.907        | 1.7304           |
|  |                      |                    |                |                |                      |                                    |                | 844            | 36.157        | 1.7388           |
|  |                      |                    |                |                |                      |                                    |                | 850            | 40.003        | 1.7491           |
|  |                      |                    |                |                |                      |                                    |                | 855            | 69.710        | 1.7571           |
|  |                      |                    |                |                |                      |                                    |                | 901            | 80.878        | 1.7785           |
|  |                      |                    |                |                |                      |                                    |                | 904            | 80.878        | 1.8003           |
|  |                      |                    |                |                |                      |                                    |                | 909            | 74.691        | 1.8301           |
|  |                      |                    |                |                |                      |                                    |                | 915            | 64.758        | 1.8561           |
|  |                      |                    |                |                |                      |                                    |                | 921            | 53.399        | 1.8777           |
|  |                      |                    |                |                |                      |                                    |                | 931            | 42.277        | 1.9072           |
|  |                      |                    |                |                |                      |                                    |                | 936            | 38.760        | 1.9326           |
|  |                      |                    |                |                |                      |                                    |                | 946            | 32.688        | 1.9549           |
|  |                      |                    |                |                |                      |                                    |                | 951            | 30.776        | 1.9748           |
|  |                      |                    |                |                |                      |                                    |                | 1001           | 28.098        | 1.9936           |
|  |                      |                    |                |                |                      |                                    |                | 1006           | 25.937        | 2.0105           |
|  |                      |                    |                |                |                      |                                    |                | 1016           | 22.210        | 2.0256           |
|  |                      |                    |                |                |                      |                                    |                | 1021           | 21.478        | 2.0393           |
|  |                      |                    |                |                |                      |                                    |                | 1031           | 17.830        | 2.0515           |
|  |                      |                    |                |                |                      |                                    |                | 1041           | 15.659        | 2.0616           |
|  |                      |                    |                |                |                      |                                    |                | 1046           | 13.987        | 2.0713           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED W-2 |        |           |          |        |        |        |          |
|--|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                           |        |           | RUNOFF   |        |        |        |          |
| Date                                       | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |        |          |
|  |          |          |                                    |        |           |          | 10-31  | 1051   | 13.094 | 2.0798   |
|  |          |          |                                    |        |           |          |        | 1056   | 12.278 | 2.0877   |
|  |          |          |                                    |        |           |          |        | 1106   | 10.098 | 2.0944   |
|  |          |          |                                    |        |           |          |        | 1116   | 8.639  | 2.1064   |
|  |          |          |                                    |        |           |          |        | 1126   | 7.400  | 2.1165   |
|  |          |          |                                    |        |           |          |        | 1146   | 5.578  | 2.1242   |
|  |          |          |                                    |        |           |          |        | 1226   | 3.779  | 2.1291   |
|  |          |          |                                    |        |           |          |        | 1500   | 2.784  | 2.1407   |
|  |          |          |                                    |        |           |          |        | 1800   | 1.238  | 2.1515   |
|  |          |          |                                    |        |           |          |        | 2000   | 0.824  | 2.1584   |
|  |          |          |                                    |        |           |          |        | 2200   | 0.576  | 2.1632   |
|  |          |          |                                    |        |           |          |        | 2400   | 0.437  | 2.1668   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.



EVENT OF OCTOBER 30 - 31, 1974

RIESEL (WACO), TEXAS WATERSHED W-2

EIESEL (WACO), TEXAS WATERSHED W-6

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; Long. 96 deg. 53 min. 11 sec. W.

AREA: 42.30 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | EISEL (WACO), TEXAS                       |       |         | WATERSHED W-6 |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|---------------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct           | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 2.08              | 1.04  | 1.43   | 3.17  | 2.24    | 0.43  | 1.41                                      | 6.88  | 9.23    | 6.69          | 5.27     | 1.54  | 41.41  |       |        |       |        |      |
|   | Q | 0.138             | 0.059 | 0.0    | 0.380 | 0.104   | 0.0   | 0.0                                       | 0.105 | 3.734   | 3.232         | 2.271    | 0.207 | 10.231 |       |        |       |        |      |
| STA AV  | P | 2.08              | 2.51  | 2.37   | 3.95  | 3.80    | 3.38  | 1.76                                      | 2.44  | 2.91    | 3.21          | 2.96     | 2.40  | 33.79  |       |        |       |        |      |
|   | Q | 0.345             | 0.376 | 0.562  | 0.741 | 0.725   | 0.545 | 0.078                                     | 0.047 | 0.194   | 0.264         | 0.366    | 0.429 | 4.673  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |               |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |               | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.          | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 9-17              | 2.387 | 9-17   | 1.680 | 9-17    | 2.141 | 10-31                                     | 2.652 | 10-31   | 3.064         | 9-16     | 3.250 | 9-16   | 3.326 | 9-10   | 3.642 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |               |          |       |        |       |        |       |        |      |
|   |   | 6-10              | 3.990 | 4-19   | 2.330 | 4-19    | 2.780 | 5-11                                      | 3.130 | 5-11    | 3.210         | 3-29     | 4.060 | 11-22  | 5.090 | 4-19   | 9.060 |        |      |
|   |   | 1941              |       | 1957   |       | 1957    |       | 1957                                      |       | 1957    |               | 1965     |       | 1940   |       | 1957   |       |        |      |

NOTES: Watershed conditions: 67% sorghum; 9% corn; 7% gravel and paved road; 14% pasture; 3% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, not terraced. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pnb. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4 and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches)  |       |       |       |       |       |      |       |       |       |       |      |       |     |
|------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-----|
| EIESEL (WACO), TEXAS WATERSHED W-6 |       |       |       |       |       |      |       |       |       |       |      |       |     |
| Day                                | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct   | Nov  | Dec   |     |
| 1                                  | 0.01E | 0.0   | 0.0   | 0.0   | 1.34  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 2                                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.01E | 0.0 |
| 3                                  | 0.02E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.02E | 0.77  | 0.0   | 0.0  | 0.0   | 0.0 |
| 4                                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.27 | 0.0   | 0.0 |
| 5                                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.73  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.17E | 0.0 |
| 6                                  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 7                                  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.76 | 0.0   | 0.0 |
| 8                                  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.32  | 0.0   | 0.0   | 0.04 | 0.0   | 0.0 |
| 9                                  | 0.01E | 0.0   | 0.01E | 0.0   | 0.0   | 0.23 | 0.0   | 0.0   | 0.40  | 0.0   | 0.06 | 0.0   | 0.0 |
| 10                                 | 0.21E | 0.0   | 0.28  | 0.0   | 0.15E | 0.0  | 0.0   | 0.0   | 1.09  | 0.0   | 0.45 | 0.68  | 0.0 |
| 11                                 | 0.0   | 0.0   | 0.0   | 0.99  | 0.0   | 0.0  | 0.04E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 12                                 | 0.0   | 0.0   | 0.14E | 0.0   | 0.0   | 0.20 | 0.0   | 0.0   | 0.69  | 0.0   | 0.0  | 0.0   | 0.0 |
| 13                                 | 0.04E | 0.0   | 0.0   | 1.33  | 0.0   | 0.0  | 0.0   | 0.0   | 1.03  | 0.0   | 0.0  | 0.0   | 0.0 |
| 14                                 | 0.0   | 0.09E | 0.29  | 0.0   | 0.0   | 0.0  | 0.20  | 0.0   | 0.42  | 0.87  | 0.0  | 0.0   | 0.0 |
| 15                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.05E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 16                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.47  | 0.0   | 0.94  | 0.0   | 0.0  | 0.0   | 0.0 |
| 17                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.53  | 0.0   | 0.0  | 0.0   | 0.0 |
| 18                                 | 0.41  | 0.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 19                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 20                                 | 0.0   | 0.0   | 0.45  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 21                                 | 0.0   | 0.79  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.14E | 0.0   | 0.0  | 0.0   | 0.0 |
| 22                                 | 0.0   | 0.0   | 0.0   | 0.49  | 0.0   | 0.0  | 0.0   | 1.87  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 |
| 23                                 | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 2.86 | 0.0   | 0.0 |
| 24                                 | 0.31  | 0.0   | 0.26  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.07  | 0.16E | 0.42 | 0.26  | 0.0 |
| 25                                 | 0.45  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.12  | 0.13  | 0.0   | 0.0  | 0.0   | 0.0 |
| 26                                 | 0.31  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.39E | 1.90  | 0.02E | 0.0   | 0.0  | 0.13E | 0.0 |
| 27                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.10  | 0.0   | 0.0   | 0.0  | 0.05E | 0.0 |
| 28                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.95  | 0.0   | 0.59  | 0.0  | 0.05E | 0.0 |
| 29                                 | 0.0   | 0.0   | 0.0   | 0.15E | 0.0   | 0.0  | 0.0   | 0.66  | 0.0   | 0.0   | 0.40 | 0.05E | 0.0 |
| 30                                 | 0.0   | 0.0   | 0.0   | 0.21  | 0.0   | 0.0  | 0.0   | 0.94  | 0.0   | 1.42  | 0.0  | 0.06E | 0.0 |
| 31                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.26  | 0.0   | 3.65  | 0.0   | 0.0  | 0.09E | 0.0 |
| TOTAL                              | 2.08  | 1.04  | 1.43  | 3.17  | 2.24  | 0.43 | 1.41  | 6.88  | 9.23  | 6.69  | 5.27 | 1.54  |     |
| STA AV                             | 2.08  | 2.51  | 2.37  | 3.95  | 3.80  | 3.38 | 1.76  | 2.44  | 2.91  | 3.21  | 2.96 | 2.40  |     |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6 |        |        |       |        |        |       |       |        |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | T     | 0.0    | 0.0    | 0.140 | 0.0   | 0.0    | 0.0    | 0.006  | 0.025  | 0.007  |
| 2  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.001 | 0.0   | 0.0    | 0.0    | 0.006  | 0.007  | 0.007  |
| 3  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.001 | 0.0   | 0.0    | 0.060  | 0.006  | 0.004  | 0.007  |
| 4  | 0.0    | 0.0    | T     | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.006  | 0.013  | 0.007  |
| 5  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.024 | 0.0   | 0.0    | 0.0    | 0.005  | 0.004  | 0.012  |
| 6  | 0.0    | 0.0    | T     | 0.0    | 0.0    | 0.002 | 0.0   | 0.0    | 0.0    | 0.005  | 0.003  | 0.011  |
| 7  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.003 | 0.0   | 0.0    | 0.0    | 0.005  | 0.187  | 0.006  |
| 8  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.004 | 0.0   | 0.0    | 0.0    | 0.005  | 0.045  | 0.006  |
| 9  | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.002 | 0.0   | 0.0    | 0.0    | 0.005  | 0.021  | 0.006  |
| 10   | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.004 | 0.0   | 0.0    | 0.051  | 0.004  | 0.295  | 0.116  |
| 11   | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.002 | 0.0   | 0.0    | 0.001  | 0.002  | 0.021  | 0.026  |
| 12   | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.001 | 0.0   | 0.0    | 0.005  | 0.001  | 0.008  | 0.008  |
| 13   | 0.0    | 0.0    |       | 0.0    | 0.357  | 0.001 | 0.0   | 0.0    | 0.323  | 0.001  | 0.006  | 0.007  |
| 14   | 0.0    | 0.0    |       | 0.0    | 0.317  | 0.001 | 0.0   | 0.0    | 0.190  | 0.004  | 0.006  | 0.007  |
| 15   | 0.0    | 0.0    |       | 0.0    | 0.001  | 0.001 | 0.0   | 0.0    | 0.011  | 0.001  | 0.006  | 0.007  |
| 16   | 0.0    | 0.0    |       | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.005  | 0.0    | 0.006  | 0.007  |
| 17   | 0.0    | 0.0    |       | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 5.776  | 0.0    | 0.007  | 0.007  |
| 18   | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.134  | 0.0    | 0.008  | 0.007  |
| 19   | 0.001  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.014  | 0.0    | 0.007  | 0.007  |
| 20   | 0.0    | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.004  | 0.0    | 0.006  | 0.007  |
| 21   | 0.0    | 0.103  |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 0.006  | 0.006  |
| 22   | 0.0    | 0.001  |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.004  | 0.0    | 0.059  | 0.006  |
| 23   | 0.003  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.004  | 0.0    | 2.480  | 0.006  |
| 24   | 0.028  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 0.734  | 0.010  |
| 25   | 0.087  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.007  | 0.0    | 0.009  | 0.007  |
| 26   | 0.122  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.007  | 0.0    | 0.007  | 0.008  |
| 27   | 0.002  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.007  | 0.0    | 0.007  | 0.007  |
| 28   | 0.001  | 0.0    |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 0.008  | 0.008  |
| 29   | 0.0    |        |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 0.033  | 0.007  |
| 30   | 0.0    |        |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.187  | 0.007  | 0.189  | 0.009  | 0.011  |
| 31   | 0.001  |        |       | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    |        | 5.494  |        | 0.016  |
| MEAN   | 0.0079 | 0.0037 | 0.0   | 0.0225 | 0.0060 | 0.0   | 0.0   | 0.0060 | 0.2212 | 0.1853 | 0.1345 | 0.0119 |
| INCHES   | 0.138  | 0.059  | 0.0   | 0.380  | 0.104  | 0.0   | 0.0   | 0.105  | 3.734  | 3.232  | 2.271  | 0.207  |
| STA AV   | 0.345  | 0.376  | 0.562 | 0.741  | 0.725  | 0.545 | 0.078 | 0.047  | 0.194  | 0.264  | 0.366  | 0.429  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period.

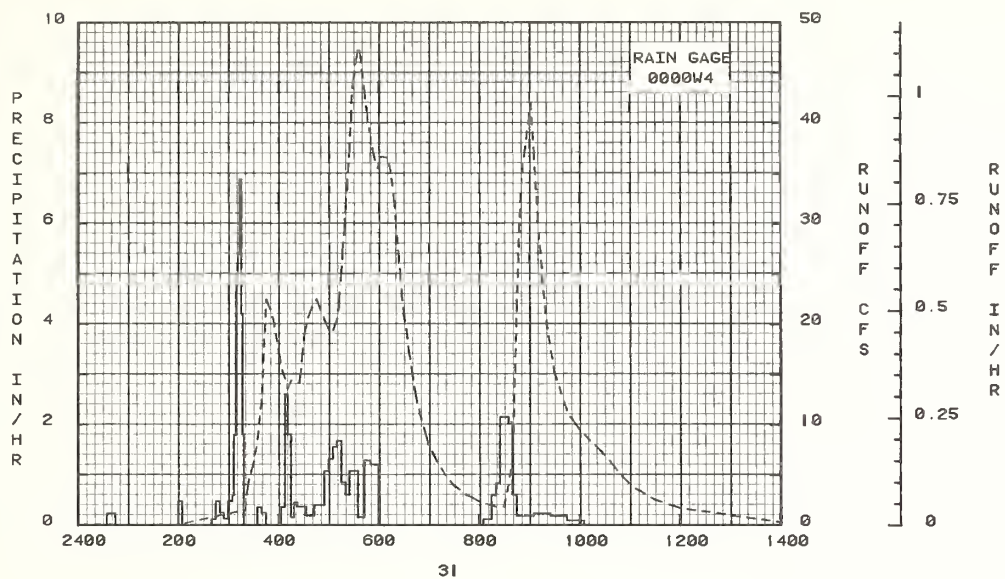
| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-6   |          |          |           |        |           |          |        |        |        |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL  |        |           | RUNOFF   |        |        |        |
| Date  | Rainfall | Rnoff    | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  |
| EVENT OF OCTOBER 30 - 31, 1974  |          |          |           |        |           |          |        |        |        |
| RG 0000W4   |          |          | RG 0000W4 |        |           |          |        |        |        |
| 10-30   | 1.42     | 0.106    | 10-30     | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 0.055  |
|   |          |          | 10-31     | 35     | 0.0       | 0.0      | 10-31  | 200    | 0.041  |
|   |          |          |           | 45     | 0.2400    | 0.04     |        | 320    | 1.551  |
|   |          |          |           | 200    | 0.0       | 0.04     |        | 325    | 4.509  |
|   |          |          |           | 205    | 0.4801    | 0.08     |        | 331    | 6.287  |
| WATERSHED CONDITIONS:   |          |          |           | 240    | 0.0       | 0.08     |        | 335    | 8.586  |
| 67% row grain sorghum; 9% corn; 14% pasture, beranda-grass; 7% roads; 3% other. cropland farmed on contour, not terraced. |          |          |           | 245    | 0.1199    | 0.09     |        | 340    | 12.471 |
|   |          |          |           | 250    | 0.4801    | 0.13     |        | 345    | 22.463 |
|   |          |          |           | 255    | 0.2399    | 0.15     |        | 350    | 21.421 |
|   |          |          |           | 300    | 0.1201    | 0.16     |        | 353    | 20.616 |
|   |          |          |           | 305    | 0.4799    | 0.20     |        | 355    | 19.714 |
|   |          |          |           | 307    | 0.6001    | 0.22     |        | 401    | 16.895 |
|   |          |          |           | 309    | 1.7999    | 0.28     |        | 405    | 15.236 |
|   |          |          |           | 311    | 4.8001    | 0.44     |        | 408    | 14.558 |
|   |          |          |           | 313    | 5.3998    | 0.62     |        | 411    | 13.609 |
|   |          |          |           | 315    | 6.8999    | 0.85     |        | 415    | 14.366 |
|   |          |          |           | 317    | 4.2000    | 0.99     |        | 425    | 14.080 |
|   |          |          |           | 319    | 1.8004    | 1.05     |        | 427    | 15.562 |
|   |          |          |           | 335    | 0.0       | 1.05     |        | 429    | 17.576 |
|   |          |          |           | 340    | 0.3600    | 1.08     |        | 431    | 19.003 |
|   |          |          |           | 345    | 0.2399    | 1.10     |        | 433    | 19.965 |
|   |          |          |           | 403    | 0.0       | 1.10     |        | 435    | 20.616 |
|   |          |          |           | 408    | 0.3602    | 1.13     |        | 440    | 21.754 |
|   |          |          |           | 411    | 2.5998    | 1.26     |        | 445    | 22.500 |
|   |          |          |           | 415    | 1.8002    | 1.38     |        | 450    | 21.384 |
|   |          |          |           | 419    | 0.1499    | 1.39     |        | 455    | 20.362 |
|   |          |          |           | 423    | 0.4500    | 1.42     |        | 500    | 19.428 |
|   |          |          |           | 433    | 0.3600    | 1.48     |        | 505    | 19.393 |
|   |          |          |           | 443    | 0.1800    | 1.51     |        | 510    | 20.579 |
|   |          |          |           | 455    | 0.4000    | 1.59     |        | 512    | 21.828 |

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.023445.



| 1974 SELECTED RUNOFF EVENT                 |                      |                    | RIESEL (WACO), TEXAS WATERSHED W-6 |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|------------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL                           |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                     | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                                    |                |                      |                  |                |                |               |                  |
| 10-31                                      |                      |                    | 500                                |                | 1.0800               | 1.68             | 10-31          | 513            | 23.180        | 0.5752           |
|  |                      |                    | 505                                |                | 1.3200               | 1.79             |                | 514            | 24.445        | 0.5839           |
|  |                      |                    | 510                                |                | 1.5601               | 1.92             |                | 515            | 25.734        | 0.5954           |
|  |                      |                    | 515                                |                | 1.6800               | 2.06             |                | 516            | 26.927        | 0.6050           |
|  |                      |                    | 520                                |                | 0.8401               | 2.13             |                | 517            | 28.140        | 0.6151           |
|  |                      |                    | 525                                |                | 0.5999               | 2.18             |                | 518            | 29.248        | 0.6256           |
|  |                      |                    | 530                                |                | 1.0801               | 2.27             |                | 519            | 30.498        | 0.6393           |
|  |                      |                    | 535                                |                | 1.0800               | 2.36             |                | 520            | 31.852        | 0.6507           |
|  |                      |                    | 543                                |                | 0.1500               | 2.38             |                | 522            | 34.447        | 0.6750           |
|  |                      |                    | 550                                |                | 1.2857               | 2.53             |                | 524            | 37.297        | 0.7046           |
|  |                      |                    | 555                                |                | 1.2001               | 2.63             |                | 526            | 40.508        | 0.7331           |
|  |                      |                    | 600                                |                | 1.1999               | 2.73             |                | 528            | 43.719        | 0.7678           |
|  |                      |                    | 805                                |                | 0.0                  | 2.73             |                | 530            | 45.116        | 0.8044           |
|  |                      |                    | 815                                |                | 0.1200               | 2.75             |                | 532            | 46.430        | 0.8380           |
|  |                      |                    | 820                                |                | 0.6000               | 2.80             |                | 534            | 47.265        | 0.8766           |
|  |                      |                    | 825                                |                | 0.8399               | 2.87             |                | 536            | 47.265        | 0.9112           |
|  |                      |                    | 830                                |                | 2.1601               | 3.05             |                | 538            | 46.039        | 0.9496           |
|  |                      |                    | 835                                |                | 2.1599               | 3.23             |                | 540            | 44.488        | 0.9828           |
|  |                      |                    | 840                                |                | 2.0400               | 3.40             |                | 543            | 42.433        | 1.0346           |
|  |                      |                    | 845                                |                | 0.6000               | 3.45             |                | 546            | 40.229        | 1.0838           |
|  |                      |                    | 855                                |                | 0.1800               | 3.48             |                | 549            | 38.982        | 1.1309           |
|  |                      |                    | 905                                |                | 0.1800               | 3.51             |                | 552            | 37.433        | 1.1729           |
|  |                      |                    | 925                                |                | 0.2400               | 3.59             |                | 555            | 36.263        | 1.2168           |
|  |                      |                    | 945                                |                | 0.1800               | 3.65             |                | 558            | 35.506        | 1.2595           |
|  |                      |                    | 1005                               |                | 0.0900               | 3.68             |                | 600            | 36.085        | 1.2890           |
|  |                      |                    |                                    |                |                      |                  |                | 602            | 36.667        | 1.3157           |
|  |                      |                    |                                    |                |                      |                  |                | 610            | 36.532        | 1.4296           |
|  |                      |                    |                                    |                |                      |                  |                | 612            | 35.951        | 1.4595           |
|  |                      |                    |                                    |                |                      |                  |                | 615            | 34.447        | 1.5014           |
|  |                      |                    |                                    |                |                      |                  |                | 618            | 32.279        | 1.5381           |
|  |                      |                    |                                    |                |                      |                  |                | 620            | 30.288        | 1.5638           |
|  |                      |                    |                                    |                |                      |                  |                | 622            | 28.018        | 1.5852           |
|  |                      |                    |                                    |                |                      |                  |                | 624            | 26.209        | 1.6075           |
|  |                      |                    |                                    |                |                      |                  |                | 626            | 24.252        | 1.6260           |
|  |                      |                    |                                    |                |                      |                  |                | 628            | 22.313        | 1.6452           |
|  |                      |                    |                                    |                |                      |                  |                | 630            | 20.980        | 1.6631           |
|  |                      |                    |                                    |                |                      |                  |                | 634            | 18.546        | 1.6788           |
|  |                      |                    |                                    |                |                      |                  |                | 636            | 17.234        | 1.6919           |
|  |                      |                    |                                    |                |                      |                  |                | 640            | 15.203        | 1.7033           |
|  |                      |                    |                                    |                |                      |                  |                | 643            | 13.484        | 1.7204           |
|  |                      |                    |                                    |                |                      |                  |                | 646            | 12.200        | 1.7357           |
|  |                      |                    |                                    |                |                      |                  |                | 649            | 11.137        | 1.7495           |
|  |                      |                    |                                    |                |                      |                  |                | 655            | 9.364         | 1.7611           |
|  |                      |                    |                                    |                |                      |                  |                | 700            | 7.961         | 1.7785           |
|  |                      |                    |                                    |                |                      |                  |                | 705            | 7.057         | 1.7930           |
|  |                      |                    |                                    |                |                      |                  |                | 710            | 6.263         | 1.8058           |
|  |                      |                    |                                    |                |                      |                  |                | 720            | 4.933         | 1.8159           |
|  |                      |                    |                                    |                |                      |                  |                | 730            | 3.959         | 1.8243           |
|  |                      |                    |                                    |                |                      |                  |                | 745            | 3.012         | 1.8306           |
|  |                      |                    |                                    |                |                      |                  |                | 800            | 2.341         | 1.8407           |
|  |                      |                    |                                    |                |                      |                  |                | 820            | 1.808         | 1.8483           |
|  |                      |                    |                                    |                |                      |                  |                | 830            | 1.853         | 1.8519           |
|  |                      |                    |                                    |                |                      |                  |                | 840            | 6.310         | 1.8539           |
|  |                      |                    |                                    |                |                      |                  |                | 845            | 22.425        | 1.8625           |
|  |                      |                    |                                    |                |                      |                  |                | 850            | 34.447        | 1.8749           |
|  |                      |                    |                                    |                |                      |                  |                | 855            | 37.750        | 1.8884           |
|  |                      |                    |                                    |                |                      |                  |                | 901            | 42.055        | 1.9234           |
|  |                      |                    |                                    |                |                      |                  |                | 905            | 37.117        | 1.9551           |
|  |                      |                    |                                    |                |                      |                  |                | 910            | 29.996        | 1.9664           |
|  |                      |                    |                                    |                |                      |                  |                | 920            | 20.253        | 1.9836           |
|  |                      |                    |                                    |                |                      |                  |                | 930            | 15.171        | 1.9964           |
|  |                      |                    |                                    |                |                      |                  |                | 945            | 11.399        | 2.0103           |
|  |                      |                    |                                    |                |                      |                  |                | 950            | 10.647        | 2.0315           |
|  |                      |                    |                                    |                |                      |                  |                | 1000           | 9.473         | 2.0511           |
|  |                      |                    |                                    |                |                      |                  |                | 1030           | 6.983         | 2.0657           |
|  |                      |                    |                                    |                |                      |                  |                | 1045           | 5.460         | 2.0771           |
|  |                      |                    |                                    |                |                      |                  |                | 1055           | 4.509         | 2.0862           |
|  |                      |                    |                                    |                |                      |                  |                | 1100           | 4.099         | 2.0948           |
|  |                      |                    |                                    |                |                      |                  |                | 1110           | 3.493         | 2.1094           |
|  |                      |                    |                                    |                |                      |                  |                | 1130           | 2.540         | 2.1202           |
|  |                      |                    |                                    |                |                      |                  |                | 1200           | 1.704         | 2.1273           |
|  |                      |                    |                                    |                |                      |                  |                | 1500           | 0.288         | 2.1355           |
|  |                      |                    |                                    |                |                      |                  |                | 1800           | 0.120         | 2.1387           |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.023445.



EVENT OF OCTOBER 30 - 31, 1974  
BIESEL (WACO), TEXAS WATERSHED W-6

RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 12 sec. N.; Long. 96 deg. 53 min. 00 sec. W.

AREA: 19.70 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | RIESEL (WACO), TEXAS WATERSHED W-10 |         |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------------------------------------|---------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                                 | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 1.98              | 1.00  | 1.40   | 2.99  | 2.24    | 0.48                                | 1.64    | 6.59  | 9.58     | 6.33  | 5.45  | 1.55  | 41.23  |       |        |       |
|   | Q | 0.615             | 0.328 | 0.024  | 0.435 | 0.606   | 0.0                                 | 0.0     | 0.0   | 4.889    | 2.649 | 2.695 | 0.363 | 12.605 |       |        |       |
| STA AV  | P | 2.11              | 2.53  | 2.27   | 3.93  | 3.70    | 3.38                                | 1.72    | 2.53  | 2.92     | 3.21  | 2.94  | 2.38  | 33.62  |       |        |       |
|   | Q | 0.543             | 0.498 | 0.598  | 0.947 | 0.844   | 0.658                               | 0.110   | 0.122 | 0.317    | 0.463 | 0.567 | 0.580 | 6.248  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                     |         |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                     | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                                | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 9-17              | 1.830 | 9-17   | 1.323 | 9-17    | 1.751                               | 9-17    | 2.160 | 9-17     | 2.296 | 9-16  | 3.789 | 9-16   | 4.044 | 9-10   | 4.846 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                     |         |       |          |       |       |       |        |       |        |       |
|   |   | 6-10              | 5.010 | 4-19   | 2.310 | 4-19    | 2.550                               | 5-11    | 3.000 | 11-22    | 3.330 | 9-16  | 3.789 | 4-24   | 5.160 | 5-19   | 8.290 |
|   |   | 1941              |       | 1957   |       | 1957    |                                     | 1957    |       | 1940     |       | 1974  |       | 1966   |       | 1957   |       |

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pnb. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       | RIESEL (WACO), TEXAS WATERSHED W-10 |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.20  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.01E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.04E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.11E | 0.68  | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.28  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.85  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.17E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.73  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.33  | 0.0   | 0.0  | 0.02E | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.01E | 0.0   | 0.02E | 0.0   | 0.0   | 0.24 | 0.0   | 0.0   | 0.36  | 0.0  | 0.07  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.22  | 0.0   | 0.32  | 0.0   | 0.17  | 0.0  | 0.0   | 0.0   | 0.98  | 0.0  | 0.48  | 0.67  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0   | 0.0   | 0.0   | 0.99  | 0.0   | 0.0  | 0.05E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0   | 0.0   | 0.09E | 0.0   | 0.0   | 0.24 | 0.0   | 0.0   | 0.57  | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.04E | 0.0   | 0.0   | 1.14  | 0.0   | 0.0  | 0.0   | 0.0   | 1.27  | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.10E | 0.30  | 0.0   | 0.0   | 0.0  | 0.21  | 0.0   | 0.36  | 0.69 | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.08E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.54  | 0.0   | 0.95  | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 4.09  | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.35  | 0.13  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0   | 0.0   | 0.43  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.77  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.16E | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.54  | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.25  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 3.25  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.33  | 0.0   | 0.24  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.03E | 0.15 | 0.25  | 0.21E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.41  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.13  | 0.10E | 0.0  | 0.0   | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.38  | 2.04  | 0.03E | 0.0  | 0.0   | 0.22E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.46  | 0.0   | 0.0  | 0.0   | 0.10  | 0.0   | 0.0  | 0.0   | 0.04E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.85  | 0.0   | 0.54 | 0.0   | 0.04E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.11E | 0.0   | 0.0  | 0.0   | 0.62  | 0.0   | 0.0  | 0.36  | 0.04E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.29  | 0.0   | 0.0  | 0.0   | 0.87  | 0.0   | 1.38 | 0.0   | 0.04E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.38  | 0.0   | 3.57  | 0.0  | 0.12E | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |       | 1.98  | 1.00  | 1.40  | 2.99  | 2.24 | 0.48  | 1.64  | 6.59  | 9.58 | 6.33  | 1.55  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |       | 2.11  | 2.53  | 2.27  | 3.93  | 3.70 | 3.38  | 1.72  | 2.53  | 2.92 | 3.21  | 2.38  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) HIESSEL (WACO), TEXAS WATERSHED W-10 |        |        |        |        |        |       |       |       |        |        |        |        |
|--|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0    | 0.0    | 0.330  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.021  | 0.001  |
| 2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.003  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.161  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  |
| 6  | 0.0    | 0.0    | 0.0    | 0.0    | 0.008  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  |
| 7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.192  | 0.0    |
| 8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.040  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.005  | 0.0    |
| 10   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.058  | 0.0    | 0.194  | 0.177  |
| 11   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.023  | 0.111  |
| 12   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.002  | 0.005  |
| 13   | 0.0    | 0.0    | 0.0    | 0.063  | 0.0    | 0.0   | 0.0   | 0.0   | 0.524  | 0.0    | 0.001  | 0.0 T  |
| 14   | 0.0    | 0.0    | 0.0    | 0.296  | 0.0    | 0.0   | 0.0   | 0.0   | 0.112  | 0.0    | 0.0    | 0.0    |
| 15   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.002  | 0.0    | 0.0    | 0.0    |
| 16   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.004  | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 3.137  | 0.0    | 0.0    | 0.0    |
| 18   | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.208  | 0.0    | 0.0    | 0.0    |
| 19   | 0.019  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.002  | 0.0    | 0.0    | 0.0    |
| 20   | 0.0 T  | 0.0    | 0.013  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.267  | 0.007  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.004  | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.010  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 1.311  | 0.0    |
| 24   | 0.090  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.413  | 0.0 T  |
| 25   | 0.072  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.008  | 0.0    |
| 26   | 0.306  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 27   | 0.010  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    |
| 29   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.010  | 0.001  |
| 30   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.302  | 0.010  | 0.001  |
| 31   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 1.890  | 0.003  | 0.003  |
| MEAN   | 0.0164 | 0.0097 | 0.0006 | 0.0120 | 0.0162 | 0.0   | 0.0   | 0.0   | 0.1349 | 0.0707 | 0.0744 | 0.0097 |
| INCHES   | 0.615  | 0.328  | 0.024  | 0.435  | 0.606  | 0.0   | 0.0   | 0.0   | 4.889  | 2.649  | 2.695  | 0.363  |
| STA AV   | 0.543  | 0.498  | 0.598  | 0.947  | 0.844  | 0.658 | 0.110 | 0.122 | 0.317  | 0.463  | 0.567  | 0.580  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208206. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 32 yr period.

| 1974 SELECTED RUNOFF EVENT  |          |          | HIESSEL (WACO), TEXAS WATERSHED W-10 |        |           |          |        |        |        |          |  |  |
|---|----------|----------|--------------------------------------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                             |        |           |          | RUNOFF |        |        |          |  |  |
| Date  | Rainfall | Runoff   | Date                                 | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day  | (inches) | (inches) | Mo-Day                               | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF OCTOBER 30 - 31, 1974  |          |          |                                      |        |           |          |        |        |        |          |  |  |
| RG 0000W6   |          |          | RG 0000W6                            |        |           |          |        |        |        |          |  |  |
| 10-30   | 0.0      | 0.0      | 10-30                                | 915    | 0.0       | 0.0      | 10-30  | 1330   | 0.0    | 0.0      |  |  |
|   |          |          |                                      | 920    | 0.9600    | 0.08     |        | 1430   | 0.001  | 0.0000   |  |  |
|   |          |          |                                      | 925    | 3.0000    | 0.33     |        | 1436   | 0.001  | 0.0000   |  |  |
|   |          |          |                                      | 930    | 0.2401    | 0.35     |        | 1446   | 0.005  | 0.0001   |  |  |
|   |          |          |                                      | 1325   | 0.0       | 0.35     |        | 1451   | 0.014  | 0.0001   |  |  |
| WATERSHED CONDITIONS:<br>100% Coastal Bermudagrass<br>pasture, 4 to 6 inches<br>high, good cover. |          |          |                                      | 1345   | 0.1200    | 0.39     |        | 1456   | 0.024  | 0.0002   |  |  |
|   |          |          |                                      | 1355   | 0.0       | 0.39     |        | 1501   | 0.049  | 0.0003   |  |  |
|   |          |          |                                      | 1405   | 0.1200    | 0.41     |        | 1503   | 0.069  | 0.0004   |  |  |
|   |          |          |                                      | 1410   | 0.0       | 0.41     |        | 1504   | 0.092  | 0.0005   |  |  |
|   |          |          |                                      | 1415   | 0.2401    | 0.43     |        | 1505   | 0.172  | 0.0006   |  |  |
|   |          |          | 1425                                 | 0.1800 | 0.46      |          | 1506   | 0.299  | 0.0008 |          |  |  |
|   |          |          | 1430                                 | 0.9600 | 0.54      |          | 1507   | 0.381  | 0.0011 |          |  |  |
|   |          |          | 1435                                 | 1.6800 | 0.68      |          | 1509   | 0.462  | 0.0018 |          |  |  |
|   |          |          | 1437                                 | 1.7999 | 0.74      |          | 1511   | 0.601  | 0.0027 |          |  |  |
|   |          |          | 1441                                 | 0.2998 | 0.76      |          | 1513   | 0.771  | 0.0039 |          |  |  |
|   |          |          | 1445                                 | 0.7500 | 0.81      |          | 1516   | 1.003  | 0.0061 |          |  |  |
|   |          |          | 1450                                 | 1.3200 | 0.92      |          | 1521   | 1.248  | 0.0108 |          |  |  |
|   |          |          | 1455                                 | 0.8401 | 0.99      |          | 1526   | 1.348  | 0.0163 |          |  |  |
|   |          |          | 1500                                 | 0.8399 | 1.06      |          | 1531   | 1.551  | 0.0223 |          |  |  |
|   |          |          | 1505                                 | 0.1201 | 1.07      |          | 1536   | 1.811  | 0.0294 |          |  |  |
|   |          |          | 1510                                 | 0.3600 | 1.10      |          | 1541   | 2.017  | 0.0374 |          |  |  |
|   |          |          | 1515                                 | 0.0    | 1.10      |          | 1551   | 2.153  | 0.0549 |          |  |  |
|   |          |          | 1525                                 | 0.2999 | 1.15      |          | 1601   | 2.030  | 0.0725 |          |  |  |
|   |          |          | 1530                                 | 0.2401 | 1.17      |          | 1611   | 1.925  | 0.0890 |          |  |  |
|   |          |          | 1535                                 | 0.4801 | 1.21      |          | 1626   | 1.643  | 0.1115 |          |  |  |
|   |          |          | 1540                                 | 0.2399 | 1.23      |          | 1656   | 1.368  | 0.1494 |          |  |  |
|   |          |          | 1545                                 | 0.4801 | 1.27      |          | 1726   | 1.162  | 0.1812 |          |  |  |
|   |          |          | 1555                                 | 0.0    | 1.27      |          | 1756   | 1.003  | 0.2085 |          |  |  |
|   |          |          | 1605                                 | 0.1200 | 1.29      |          | 1826   | 0.836  | 0.2316 |          |  |  |
|   |          |          | 1905                                 | 0.0    | 1.29      |          | 1856   | 0.743  | 0.2515 |          |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

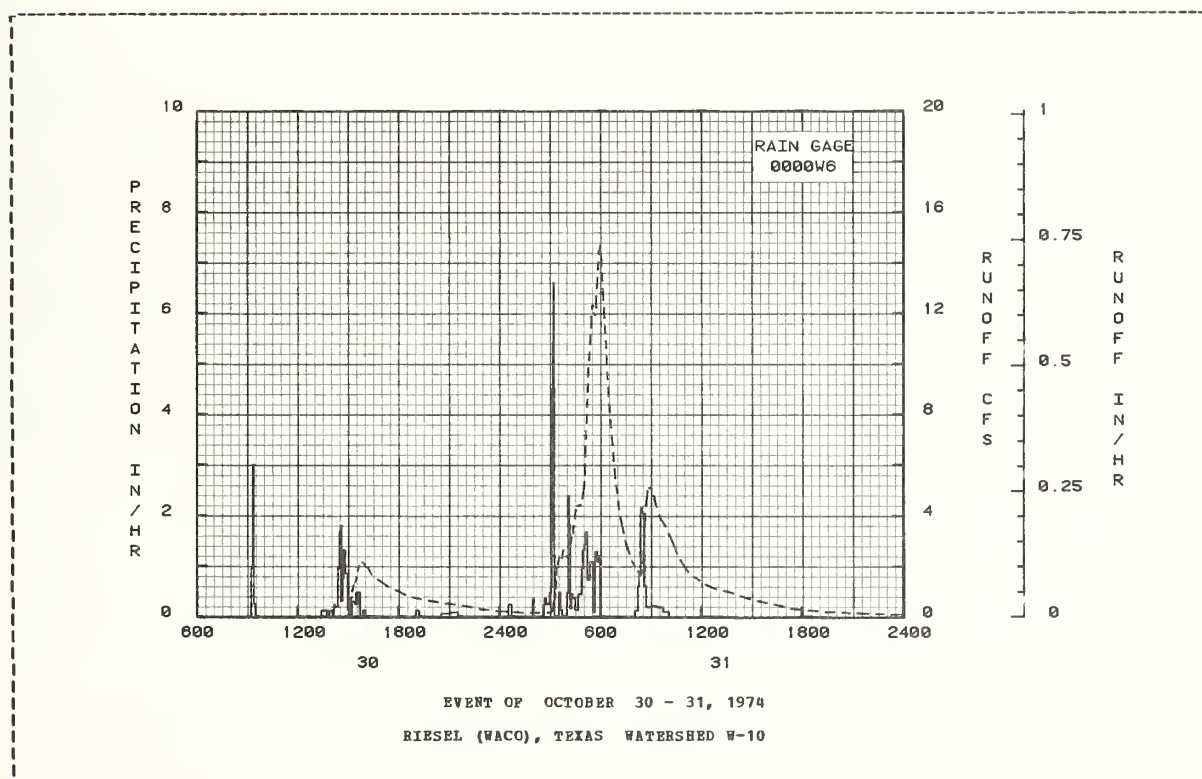


| 1974 SELECTED RUNOFF EVENT                 |                      |                   | RIESEL (WACO), TEXAS WATERSHED W-10 |                |                      |                  |                |                |               |                  |
|--|----------------------|-------------------|-------------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                   | RAINFALL                            |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Rnoff<br>(inches) | Date<br>Mo-Day                      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                   |                                     |                |                      |                  |                |                |               |                  |
| 10-30                                      |                      |                   | 1915                                |                | 0.1199               | 1.31             | 10-30          | 1956           | 0.601         | 0.2853           |
|  |                      |                   | 2035                                |                | 0.0                  | 1.31             | 2056           | 0.493          | 0.3129        |                  |
|  |                      |                   | 2105                                |                | 0.0600               | 1.34             | 2156           | 0.400          | 0.3353        |                  |
|  |                      |                   | 2135                                |                | 0.0800               | 1.38             | 2256           | 0.280          | 0.3525        |                  |
|  |                      |                   | 2400                                |                | 0.0                  | 1.38             | 2400           | 0.198          | 0.3653        |                  |
| 10-31                                      |                      |                   | 35                                  |                | 0.0                  | 1.38             | 10-31          | 100            | 0.150         | 0.3740           |
|  |                      |                   | 45                                  |                | 0.2400               | 1.42             | 200            | 0.125          | 0.3810        |                  |
|  |                      |                   | 200                                 |                | 0.0                  | 1.42             | 256            | 0.139          | 0.3872        |                  |
|  |                      |                   | 205                                 |                | 0.3600               | 1.45             | 306            | 0.156          | 0.3884        |                  |
|  |                      |                   | 240                                 |                | 0.0                  | 1.45             | 311            | 0.214          | 0.3892        |                  |
|  |                      |                   | 245                                 |                | 0.2401               | 1.47             | 312            | 0.247          | 0.3894        |                  |
|  |                      |                   | 250                                 |                | 0.3600               | 1.50             | 313            | 0.322          | 0.3896        |                  |
|  |                      |                   | 255                                 |                | 0.2401               | 1.52             | 314            | 0.395          | 0.3899        |                  |
|  |                      |                   | 300                                 |                | 0.2401               | 1.54             | 315            | 0.499          | 0.3903        |                  |
|  |                      |                   | 305                                 |                | 0.4799               | 1.58             | 316            | 0.621          | 0.3908        |                  |
|  |                      |                   | 307                                 |                | 0.6001               | 1.60             | 320            | 0.714          | 0.3930        |                  |
|  |                      |                   | 309                                 |                | 1.4996               | 1.65             | 322            | 0.903          | 0.3944        |                  |
|  |                      |                   | 311                                 |                | 4.5003               | 1.80             | 323            | 1.133          | 0.3952        |                  |
|  |                      |                   | 313                                 |                | 5.3998               | 1.98             | 324            | 1.408          | 0.3963        |                  |
|  |                      |                   | 315                                 |                | 6.6000               | 2.20             | 325            | 1.661          | 0.3976        |                  |
|  |                      |                   | 317                                 |                | 4.5003               | 2.35             | 327            | 1.959          | 0.4006        |                  |
|  |                      |                   | 319                                 |                | 1.1998               | 2.39             | 330            | 2.084          | 0.4057        |                  |
|  |                      |                   | 335                                 |                | 0.0                  | 2.39             | 335            | 2.324          | 0.4150        |                  |
|  |                      |                   | 340                                 |                | 0.4801               | 2.43             | 345            | 2.324          | 0.4345        |                  |
|  |                      |                   | 345                                 |                | 0.1199               | 2.44             | 350            | 2.626          | 0.4448        |                  |
|  |                      |                   | 403                                 |                | 0.0                  | 2.44             | 400            | 2.373          | 0.4658        |                  |
|  |                      |                   | 408                                 |                | 0.4799               | 2.48             | 410            | 2.275          | 0.4853        |                  |
|  |                      |                   | 411                                 |                | 2.4002               | 2.60             | 415            | 2.816          | 0.4960        |                  |
|  |                      |                   | 415                                 |                | 1.7999               | 2.72             | 420            | 3.120          | 0.5084        |                  |
|  |                      |                   | 419                                 |                | 0.1499               | 2.73             | 425            | 3.304          | 0.5219        |                  |
|  |                      |                   | 423                                 |                | 0.4500               | 2.76             | 430            | 3.919          | 0.5371        |                  |
|  |                      |                   | 433                                 |                | 0.3601               | 2.82             | 435            | 4.221          | 0.5541        |                  |
|  |                      |                   | 443                                 |                | 0.1199               | 2.84             | 440            | 4.385          | 0.5722        |                  |
|  |                      |                   | 455                                 |                | 0.4501               | 2.93             | 450            | 4.385          | 0.6090        |                  |
|  |                      |                   | 500                                 |                | 0.9598               | 3.01             | 500            | 4.783          | 0.6474        |                  |
|  |                      |                   | 505                                 |                | 1.3200               | 3.12             | 505            | 5.327          | 0.6686        |                  |
|  |                      |                   | 510                                 |                | 1.4401               | 3.24             | 507            | 6.030          | 0.6782        |                  |
|  |                      |                   | 515                                 |                | 1.6800               | 3.38             | 509            | 6.716          | 0.6889        |                  |
|  |                      |                   | 520                                 |                | 0.7200               | 3.44             | 511            | 7.354          | 0.7007        |                  |
|  |                      |                   | 525                                 |                | 0.7200               | 3.50             | 513            | 7.987          | 0.7135        |                  |
|  |                      |                   | 530                                 |                | 1.0800               | 3.59             | 515            | 8.586          | 0.7274        |                  |
|  |                      |                   | 535                                 |                | 1.0801               | 3.68             | 518            | 9.528          | 0.7502        |                  |
|  |                      |                   | 543                                 |                | 0.0750               | 3.69             | 521            | 10.166         | 0.7750        |                  |
|  |                      |                   | 550                                 |                | 1.2857               | 3.84             | 525            | 10.819         | 0.8102        |                  |
|  |                      |                   | 555                                 |                | 1.0801               | 3.93             | 529            | 11.871         | 0.8483        |                  |
|  |                      |                   | 600                                 |                | 1.1999               | 4.03             | 532            | 12.290         | 0.8787        |                  |
|  |                      |                   | 805                                 |                | 0.0                  | 4.03             | 535            | 12.290         | 0.9097        |                  |
|  |                      |                   | 815                                 |                | 0.1200               | 4.05             | 540            | 11.901         | 0.9604        |                  |
|  |                      |                   | 820                                 |                | 0.6000               | 4.10             | 545            | 11.901         | 1.0103        |                  |
|  |                      |                   | 825                                 |                | 0.8399               | 4.17             | 547            | 12.683         | 1.0310        |                  |
|  |                      |                   | 830                                 |                | 2.1601               | 4.35             | 550            | 13.422         | 1.0638        |                  |
|  |                      |                   | 835                                 |                | 2.0400               | 4.52             | 555            | 14.430         | 1.1222        |                  |
|  |                      |                   | 840                                 |                | 1.9200               | 4.68             | 600            | 14.686         | 1.1833        |                  |
|  |                      |                   | 845                                 |                | 0.5999               | 4.73             | 605            | 13.859         | 1.2432        |                  |
|  |                      |                   | 855                                 |                | 0.1800               | 4.76             | 610            | 12.805         | 1.2991        |                  |
|  |                      |                   | 905                                 |                | 0.1801               | 4.79             | 615            | 11.782         | 1.3507        |                  |
|  |                      |                   | 925                                 |                | 0.2100               | 4.86             | 620            | 10.877         | 1.3982        |                  |
|  |                      |                   | 945                                 |                | 0.1800               | 4.92             | 625            | 9.942          | 1.4419        |                  |
|  |                      |                   | 1005                                |                | 0.0900               | 4.95             | 630            | 8.985          | 1.4816        |                  |
|  |                      |                   |                                     |                |                      |                  | 635            | 8.064          | 1.5174        |                  |
|  |                      |                   |                                     |                |                      |                  | 640            | 7.454          | 1.5499        |                  |
|  |                      |                   |                                     |                |                      |                  | 645            | 6.764          | 1.5797        |                  |
|  |                      |                   |                                     |                |                      |                  | 650            | 6.123          | 1.6068        |                  |
|  |                      |                   |                                     |                |                      |                  | 655            | 5.460          | 1.6311        |                  |
|  |                      |                   |                                     |                |                      |                  | 705            | 4.530          | 1.6730        |                  |
|  |                      |                   |                                     |                |                      |                  | 715            | 3.840          | 1.7081        |                  |
|  |                      |                   |                                     |                |                      |                  | 725            | 3.286          | 1.7380        |                  |
|  |                      |                   |                                     |                |                      |                  | 735            | 2.834          | 1.7636        |                  |
|  |                      |                   |                                     |                |                      |                  | 745            | 2.473          | 1.7859        |                  |
|  |                      |                   |                                     |                |                      |                  | 755            | 2.195          | 1.8055        |                  |
|  |                      |                   |                                     |                |                      |                  | 805            | 1.959          | 1.8229        |                  |
|  |                      |                   |                                     |                |                      |                  | 815            | 1.778          | 1.8386        |                  |
|  |                      |                   |                                     |                |                      |                  | 825            | 1.632          | 1.8529        |                  |
|  |                      |                   |                                     |                |                      |                  | 827            | 1.632          | 1.8556        |                  |
|  |                      |                   |                                     |                |                      |                  | 830            | 1.838          | 1.8600        |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED W-10 |        |           |          |        |        |
|--|----------|----------|-------------------------------------|--------|-----------|----------|--------|--------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                            |        |           | RUNOFF   |        |        |
| Date                                       | Rainfall | Runoff   | Date                                | Time   | Intensity | Acc.     | Date   | Time   |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                              | of Day | (in/hr)   | (inches) | Mo-Day | of Day |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                     |        |           |          |        |        |
|  |          |          |                                     | 10-31  |           |          |        |        |
|  |          |          |                                     | 833    |           |          |        | 833    |
|  |          |          |                                     | 836    |           |          |        | 836    |
|  |          |          |                                     | 838    |           |          |        | 838    |
|  |          |          |                                     | 841    |           |          |        | 841    |
|  |          |          |                                     | 845    |           |          |        | 845    |
|  |          |          |                                     | 850    |           |          |        | 850    |
|  |          |          |                                     | 855    |           |          |        | 855    |
|  |          |          |                                     | 905    |           |          |        | 905    |
|  |          |          |                                     | 915    |           |          |        | 915    |
|  |          |          |                                     | 935    |           |          |        | 935    |
|  |          |          |                                     | 955    |           |          |        | 955    |
|  |          |          |                                     | 1015   |           |          |        | 1015   |
|  |          |          |                                     | 1035   |           |          |        | 1035   |
|  |          |          |                                     | 1055   |           |          |        | 1055   |
|  |          |          |                                     | 1115   |           |          |        | 1115   |
|  |          |          |                                     | 1135   |           |          |        | 1135   |
|  |          |          |                                     | 1155   |           |          |        | 1155   |
|  |          |          |                                     | 1225   |           |          |        | 1225   |
|  |          |          |                                     | 1255   |           |          |        | 1255   |
|  |          |          |                                     | 1330   |           |          |        | 1330   |
|  |          |          |                                     | 1430   |           |          |        | 1430   |
|  |          |          |                                     | 1530   |           |          |        | 1530   |
|  |          |          |                                     | 1630   |           |          |        | 1630   |
|  |          |          |                                     | 1730   |           |          |        | 1730   |
|  |          |          |                                     | 1830   |           |          |        | 1830   |
|  |          |          |                                     | 1930   |           |          |        | 1930   |
|  |          |          |                                     | 2130   |           |          |        | 2130   |
|  |          |          |                                     | 2400   |           |          |        | 2400   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.050342.



RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 36 sec. W.

AREA: 309.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |         |       |          |       |       |       | RIESEL (WACO), TEXAS WATERSHED Y |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---------|-------|----------|-------|-------|-------|----------------------------------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual                           |       |
| 1974  | P | 2.11              | 1.02  | 1.63   | 3.70  | 2.10    | 0.50  | 1.10    | 6.70  | 8.52     | 6.77  | 4.39  | 1.62  | 40.16                            |       |
|   | Q | 0.329             | 0.138 | 0.029  | 0.961 | 0.125   | 0.0   | 0.0     | 0.0   | 2.690    | 2.428 | 1.776 | 0.426 | 8.903                            |       |
| STA AV  | P | 2.19              | 2.51  | 2.33   | 3.86  | 3.74    | 3.46  | 1.79    | 2.26  | 2.80     | 3.09  | 2.80  | 2.40  | 33.23                            |       |
|   | Q | 0.528             | 0.516 | 0.596  | 0.793 | 0.672   | 0.619 | 0.138   | 0.048 | 0.169    | 0.229 | 0.382 | 0.422 | 5.111                            |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                  |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days                           |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date                             | Vol.  |
| 1974  |   | 4-13              | 0.850 | 9-17   | 0.592 | 9-17    | 0.878 | 10-31   | 1.667 | 10-31    | 2.065 | 10-30 | 2.337 | 10-30                            | 2.438 |
|   |   | 4-19              | 2.540 | 4-19   | 2.150 | 4-19    | 2.740 | 4-19    | 3.480 | 4-19     | 3.660 | 3-29  | 3.980 | 11-22                            | 4.770 |
|   |   | 1957              |       | 1957   |       | 1957    |       | 1957    |       | 1957     |       | 1965  |       | 1940                             | 1957  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                  |       |
|   |   | 4-19              | 2.540 | 4-19   | 2.150 | 4-19    | 2.740 | 4-19    | 3.480 | 4-19     | 3.660 | 3-29  | 3.980 | 11-22                            | 4.770 |
|   |   | 1957              |       | 1957   |       | 1957    |       | 1957    |       | 1957     |       | 1965  |       | 1940                             | 1957  |

NOTES: Watershed conditions: 56% pasture; 10% cotton; 23% fall planted small grain, largely oats; 10% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |      |       |       |       |       |       |       |       |       | RIESEL (WACO), TEXAS WATERSHED Y |  |
|-----------------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--|
|                                   | Day   | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |                                  |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 1.23  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   |                                  |  |
| 3                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.0  | 0.03E | 0.0   | 0.0   | 0.07E | 0.63  | 0.0   | 0.0   | 0.0   |                                  |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.30  | 0.0   |                                  |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.68  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.16E |                                  |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.78  | 0.0   |                                  |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.29  | 0.0   | 0.0   | 0.03E | 0.0   |                                  |  |
| 9                                 | 0.02E | 0.0   | 0.04E | 0.0   | 0.0  | 0.27  | 0.0   | 0.0   | 0.36  | 0.0   | 0.07  | 0.0   | 0.0   |                                  |  |
| 10                                | 0.19  | 0.0   | 0.23  | 0.0   | 0.15 | 0.0   | 0.0   | 0.0   | 0.99  | 0.0   | 0.43  | 0.71  | 0.0   |                                  |  |
| 11                                | 0.0   | 0.0   | 0.13E | 1.02  | 0.0  | 0.0   | 0.06E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 12                                | 0.0   | 0.0   | 0.19E | 0.0   | 0.0  | 0.23  | 0.0   | 0.0   | 0.54  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 13                                | 0.05E | 0.0   | 0.0   | 1.92  | 0.0  | 0.0   | 0.0   | 0.0   | 1.06  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 14                                | 0.0   | 0.05E | 0.31  | 0.0   | 0.0  | 0.0   | 0.18  | 0.0   | 0.53  | 0.82  | 0.0   | 0.0   | 0.0   |                                  |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.08E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.05E | 0.0   | 0.88  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 3.04  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 18                                | 0.47  | 0.14E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 20                                | 0.0   | 0.0   | 0.46  | 0.0 E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 21                                | 0.0   | 0.83  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.14E | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.42  | 0.0  | 0.0   | 0.0   | 0.0   | 1.21  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 23                                | 0.31  | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.18  | 0.0   |                                  |  |
| 24                                | 0.29  | 0.0   | 0.26  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.09  | 0.14E | 0.25  | 0.29  | 0.0   |                                  |  |
| 25                                | 0.43  | 0.0   | 0.01E | 0.0   | 0.0  | 0.0   | 0.0   | 0.03E | 0.23  | 0.0   | 0.0   | 0.0   | 0.0   |                                  |  |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.18E | 2.19  | 0.03E | 0.0   | 0.0   | 0.0   | 0.11E |                                  |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.12  | 0.0   | 0.0   | 0.0   | 0.0   | 0.07E |                                  |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.98  | 0.0   | 0.80  | 0.0   | 0.04E | 0.0   |                                  |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.12E | 0.0  | 0.0   | 0.0   | 0.74  | 0.0   | 0.0   | 0.34  | 0.04E | 0.0   |                                  |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.22  | 0.0  | 0.0   | 0.0   | 1.07  | 0.0   | 1.60  | 0.0   | 0.08E | 0.0   |                                  |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.55  | 0.0   | 3.41  | 0.0   | 0.12E | 0.0   | 0.0   |                                  |  |
| TOTAL                             |       | 2.11  | 1.02  | 1.63  | 3.70 | 2.10  | 0.50  | 1.10  | 6.70  | 8.52  | 6.77  | 4.39  | 1.62  |                                  |  |
| STA AV                            |       | 2.19  | 2.51  | 2.33  | 3.86 | 3.74  | 3.46  | 1.79  | 2.26  | 2.80  | 3.09  | 2.80  | 2.40  |                                  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 33 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y |        |        |        |        |        |       |       |       |        |        |        |        |
|--|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.003  | 0.032  | 0.012  | 0.0    | 1.290  | 0.0   | 0.0   | 0.0   | 0.0    | 0.017  | 0.575  | 0.097  |
| 2  | 0.010  | 0.040  | 0.010  | 0.001  | 0.035  | 0.0   | 0.0   | 0.0   | 0.0    | 0.016  | 0.230  | 0.092  |
| 3  | 0.010  | 0.019  | 0.006  | 0.0    | 0.001  | 0.0   | 0.0   | 0.0   | 0.0    | 0.013  | 0.119  | 0.086  |
| 4  | 0.009  | 0.014  | 0.005  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.010  | 0.362  | 0.079  |
| 5  | 0.012  | 0.016  | 0.006  | 0.0    | 0.241  | 0.0   | 0.0   | 0.0   | 0.0    | 0.010  | 0.132  | 0.119  |
| 6  | 0.012  | 0.019  | 0.005  | 0.0    | 0.042  | 0.0   | 0.0   | 0.0   | 0.0    | 0.009  | 0.083  | 0.178  |
| 7  | 0.008  | 0.013  | 0.006  | 0.0    | 0.004  | 0.0   | 0.0   | 0.0   | 0.0    | 0.008  | 2.346  | 0.074  |
| 8  | 0.016  | 0.013  | 0.004  | 0.0    | 0.001  | 0.0   | 0.0   | 0.0   | 0.0    | 0.006  | 0.669  | 0.055  |
| 9  | 0.017  | 0.010  | 0.009  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.005  | 0.254  | 0.051  |
| 10   | 0.029  | 0.009  | 0.031  | 0.0    | 0.004  | 0.0   | 0.0   | 0.0   | 0.204  | 0.003  | 2.638  | 1.893  |
| 11   | 0.013  | 0.010  | 0.013  | 0.044  | 0.004  | 0.0   | 0.0   | 0.0   | 0.031  | 0.003  | 0.408  | 0.650  |
| 12   | 0.006  | 0.012  | 0.030  | 0.010  | 0.0    | 0.0   | 0.0   | 0.0   | 0.030  | 0.003  | 0.129  | 0.125  |
| 13   | 0.009  | 0.010  | 0.006  | 8.050  | 0.0    | 0.0   | 0.0   | 0.0   | 1.711  | 0.003  | 0.087  | 0.093  |
| 14   | 0.014  | 0.014  | 0.012  | 4.317  | 0.0    | 0.0   | 0.0   | 0.0   | 2.742  | 0.023  | 0.060  | 0.093  |
| 15   | 0.010  | 0.014  | 0.039  | 0.017  | 0.0    | 0.0   | 0.0   | 0.0   | 0.296  | 0.022  | 0.062  | 0.087  |
| 16   | 0.009  | 0.010  | 0.010  | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.055  | 0.005  | 0.070  | 0.070  |
| 17   | 0.010  | 0.012  | 0.006  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 26.215 | 0.003  | 0.075  | 0.061  |
| 18   | 0.056  | 0.021  | 0.005  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 2.535  | 0.0    | 0.077  | 0.057  |
| 19   | 0.253  | 0.010  | 0.004  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.332  | 0.0    | 0.082  | 0.055  |
| 20   | 0.023  | 0.013  | 0.044  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.125  | 0.0    | 0.060  | 0.048  |
| 21   | 0.013  | 1.385  | 0.039  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.084  | 0.0    | 0.052  | 0.043  |
| 22   | 0.010  | 0.036  | 0.006  | 0.027  | 0.0    | 0.0   | 0.0   | 0.0   | 0.061  | 0.0    | 0.051  | 0.053  |
| 23   | 0.060  | 0.014  | 0.005  | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.039  | 0.0    | 7.686  | 0.068  |
| 24   | 0.460  | 0.006  | 0.016  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.047  | 0.0    | 5.704  | 0.177  |
| 25   | 0.548  | 0.006  | 0.013  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.179  | 0.0    | 0.204  | 0.129  |
| 26   | 2.416  | 0.009  | 0.010  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.099  | 0.0    | 0.139  | 0.114  |
| 27   | 0.091  | 0.008  | 0.009  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.068  | 0.0    | 0.101  | 0.118  |
| 28   | 0.051  | 0.012  | 0.006  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.036  | 0.056  | 0.097  | 0.110  |
| 29   | 0.034  | 0.004  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.021  | 0.018  | 0.328  | 0.131  |
| 30   | 0.031  | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.018  | 3.333  | 0.182  | 0.200  |
| 31   | 0.026  |        | 0.003  |        | 0.0    |       | 0.0   | 0.0   |        | 27.960 |        | 0.328  |
| MEAN   | 0.1377 | 0.0640 | 0.0122 | 0.4156 | 0.0523 | 0.0   | 0.0   | 0.0   | 1.1643 | 1.0169 | 0.7687 | 0.1785 |
| INCHES   | 0.329  | 0.138  | 0.029  | 0.961  | 0.125  | 0.0   | 0.0   | 0.0   | 2.690  | 2.428  | 1.776  | 0.426  |
| STA AV   | 0.528  | 0.516  | 0.596  | 0.793  | 0.672  | 0.619 | 0.138 | 0.048 | 0.169  | 0.229  | 0.382  | 0.422  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 33 yr period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y |          |          |          |        |           |          |        |        |         |          |  |
|---|----------|----------|----------|--------|-----------|----------|--------|--------|---------|----------|--|
| ANTECEDENT CONDITIONS                                       |          |          | RAINFALL |        |           |          | RUNOFF |        |         |          |  |
| Date  | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974                              |          |          |          |        |           |          |        |        |         |          |  |
| RG 00084A RG 00084A   |          |          |          |        |           |          |        |        |         |          |  |
| 10-30   | 1.49     | 0.257    | 10-30    | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 2.442   | 0.0      |  |
|   |          |          | 10-31    | 39     | 0.0       | 0.0      | 10-31  | 100    | 2.114   | 0.0073   |  |
|   |          |          |          | 54     | 0.1600    | 0.04     |        | 200    | 1.816   | 0.0136   |  |
|   |          |          |          | 204    | 0.0       | 0.04     |        | 250    | 1.791   | 0.0185   |  |
|   |          |          |          | 209    | 0.7200    | 0.10     |        | 308    | 1.970   | 0.0203   |  |
| WATERSHED CONDITIONS:                                       |          |          |          |        |           |          |        |        |         |          |  |
| 56% pasture, Bermudagrass                                   |          |          |          |        |           |          |        |        |         |          |  |
| and native grass, good                                      |          |          |          |        |           |          |        |        |         |          |  |
| cover, moderately grazed;                                   |          |          |          |        |           |          |        |        |         |          |  |
| 23% fall planted oats; 10%                                  |          |          |          |        |           |          |        |        |         |          |  |
| row grain sorghum; 10%                                      |          |          |          |        |           |          |        |        |         |          |  |
| cotton; 1% gravel roads.                                    |          |          |          |        |           |          |        |        |         |          |  |
| Cropland terraced, cultivated on contour.                   |          |          |          |        |           |          |        |        |         |          |  |
|   |          |          |          | 244    | 0.0       | 0.10     |        | 313    | 2.646   | 0.0209   |  |
|   |          |          |          | 249    | 0.1201    | 0.11     |        | 314    | 3.250   | 0.0210   |  |
|   |          |          |          | 304    | 0.3200    | 0.19     |        | 315    | 4.196   | 0.0213   |  |
|   |          |          |          | 309    | 0.5999    | 0.24     |        | 316    | 5.428   | 0.0215   |  |
|   |          |          |          | 312    | 1.2003    | 0.30     |        | 317    | 6.589   | 0.0218   |  |
|   |          |          |          | 314    | 3.5999    | 0.42     |        | 318    | 7.593   | 0.0222   |  |
|   |          |          |          | 316    | 4.8001    | 0.58     |        | 319    | 9.965   | 0.0227   |  |
|   |          |          |          | 318    | 7.1997    | 0.82     |        | 320    | 11.313  | 0.0232   |  |
|   |          |          |          | 320    | 3.6003    | 0.94     |        | 321    | 13.262  | 0.0239   |  |
|   |          |          |          | 322    | 1.1998    | 0.98     |        | 324    | 16.374  | 0.0263   |  |
|   |          |          |          | 324    | 0.6001    | 1.00     |        | 325    | 19.694  | 0.0272   |  |
|   |          |          |          | 339    | 0.0       | 1.00     |        | 326    | 25.687  | 0.0283   |  |
|   |          |          |          | 344    | 0.3600    | 1.03     |        | 327    | 30.884  | 0.0301   |  |
|   |          |          |          | 354    | 0.0       | 1.03     |        | 328    | 33.209  | 0.0317   |  |
|   |          |          |          | 404    | 0.0600    | 1.04     |        | 329    | 35.355  | 0.0334   |  |
|   |          |          |          | 411    | 0.3429    | 1.08     |        | 330    | 36.816  | 0.0357   |  |
|   |          |          |          | 414    | 2.5998    | 1.21     |        | 331    | 39.457  | 0.0376   |  |
|   |          |          |          | 418    | 1.9501    | 1.34     |        | 332    | 44.791  | 0.0397   |  |
|   |          |          |          | 424    | 0.0       | 1.34     |        | 333    | 55.113  | 0.0422   |  |
|   |          |          |          | 434    | 0.3000    | 1.39     |        | 334    | 69.165  | 0.0461   |  |
|   |          |          |          | 444    | 0.2400    | 1.43     |        | 335    | 84.961  | 0.0500   |  |
|   |          |          |          | 454    | 0.3000    | 1.48     |        | 336    | 103.925 | 0.0547   |  |
|   |          |          |          | 459    | 0.4799    | 1.52     |        | 337    | 121.647 | 0.0604   |  |
|   |          |          |          | 504    | 0.9600    | 1.60     |        | 338    | 133.380 | 0.0683   |  |
|   |          |          |          | 509    | 0.8401    | 1.67     |        | 339    | 144.877 | 0.0753   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

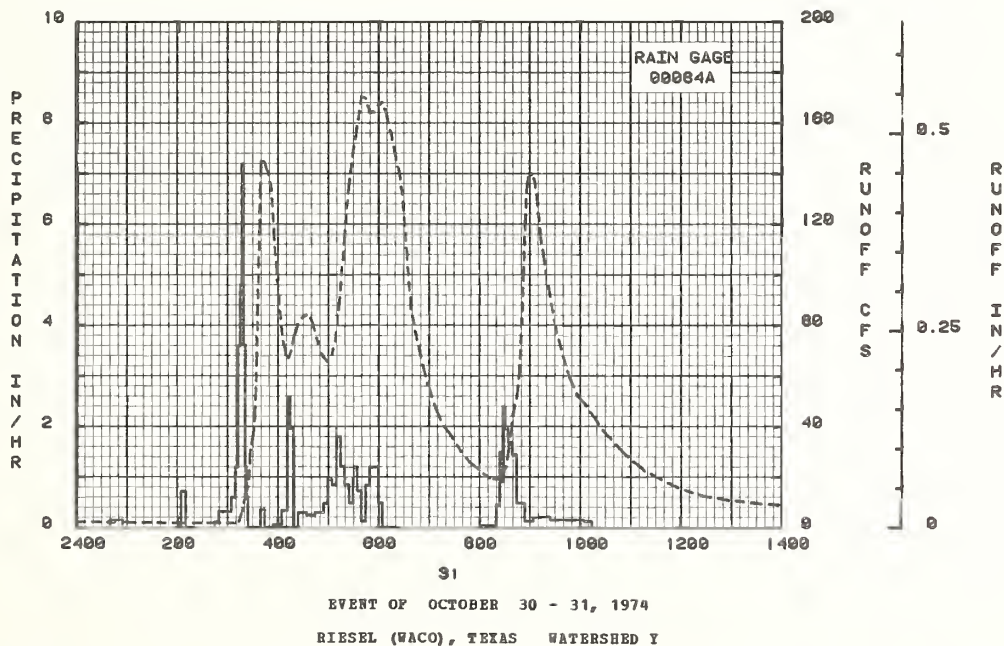


| 1974 SELECTED RUNOFF EVENT                 |                      |                    | BIESEL (WACO), TEXAS WATERSHED 1 |                |                      |                  |                |                  |
|--|----------------------|--------------------|----------------------------------|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL                         |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|  |                      |                    |                                  |                |                      |                  |                | Rate<br>(cfs)    |
|  |                      |                    |                                  |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                                  |                |                      |                  |                |                  |
| 10-31                                      |                      |                    | 514                              |                | 1.7999               | 1.82             | 10-31          | 342              |
|  |                      |                    | 519                              |                | 1.2001               | 1.92             |                | 348              |
|  |                      |                    | 524                              |                | 0.8399               | 1.99             |                | 351              |
|  |                      |                    | 529                              |                | 0.4801               | 2.03             |                | 354              |
|  |                      |                    | 534                              |                | 1.1999               | 2.13             |                | 357              |
|  |                      |                    | 539                              |                | 0.7202               | 2.19             |                | 400              |
|  |                      |                    | 544                              |                | 0.1199               | 2.20             |                | 403              |
|  |                      |                    | 549                              |                | 0.8399               | 2.27             |                | 406              |
|  |                      |                    | 554                              |                | 1.2001               | 2.37             |                | 409              |
|  |                      |                    | 559                              |                | 1.2001               | 2.47             |                | 412              |
|  |                      |                    | 604                              |                | 0.4799               | 2.51             |                | 415              |
|  |                      |                    | 804                              |                | 0.0                  | 2.51             |                | 418              |
|  |                      |                    | 820                              |                | 0.0375               | 2.52             |                | 423              |
|  |                      |                    | 824                              |                | 0.4502               | 2.55             |                | 428              |
|  |                      |                    | 826                              |                | 1.4996               | 2.60             |                | 433              |
|  |                      |                    | 828                              |                | 0.9000               | 2.63             |                | 438              |
|  |                      |                    | 830                              |                | 2.4001               | 2.71             |                | 443              |
|  |                      |                    | 834                              |                | 1.9501               | 2.84             |                | 448              |
|  |                      |                    | 839                              |                | 1.6800               | 2.98             |                | 453              |
|  |                      |                    | 844                              |                | 1.4399               | 3.10             |                | 458              |
|  |                      |                    | 854                              |                | 0.4800               | 3.18             |                | 503              |
|  |                      |                    | 904                              |                | 0.1200               | 3.20             |                | 508              |
|  |                      |                    | 924                              |                | 0.2100               | 3.27             |                | 513              |
|  |                      |                    | 944                              |                | 0.1500               | 3.32             |                | 518              |
|  |                      |                    | 1004                             |                | 0.1500               | 3.37             |                | 523              |
|  |                      |                    | 1014                             |                | 0.1200               | 3.39             |                | 528              |
|  |                      |                    |                                  |                |                      |                  |                | 533              |
|  |                      |                    |                                  |                |                      |                  |                | 538              |
|  |                      |                    |                                  |                |                      |                  |                | 543              |
|  |                      |                    |                                  |                |                      |                  |                | 548              |
|  |                      |                    |                                  |                |                      |                  |                | 553              |
|  |                      |                    |                                  |                |                      |                  |                | 558              |
|  |                      |                    |                                  |                |                      |                  |                | 603              |
|  |                      |                    |                                  |                |                      |                  |                | 608              |
|  |                      |                    |                                  |                |                      |                  |                | 613              |
|  |                      |                    |                                  |                |                      |                  |                | 618              |
|  |                      |                    |                                  |                |                      |                  |                | 623              |
|  |                      |                    |                                  |                |                      |                  |                | 628              |
|  |                      |                    |                                  |                |                      |                  |                | 633              |
|  |                      |                    |                                  |                |                      |                  |                | 638              |
|  |                      |                    |                                  |                |                      |                  |                | 643              |
|  |                      |                    |                                  |                |                      |                  |                | 648              |
|  |                      |                    |                                  |                |                      |                  |                | 653              |
|  |                      |                    |                                  |                |                      |                  |                | 658              |
|  |                      |                    |                                  |                |                      |                  |                | 703              |
|  |                      |                    |                                  |                |                      |                  |                | 708              |
|  |                      |                    |                                  |                |                      |                  |                | 713              |
|  |                      |                    |                                  |                |                      |                  |                | 718              |
|  |                      |                    |                                  |                |                      |                  |                | 728              |
|  |                      |                    |                                  |                |                      |                  |                | 738              |
|  |                      |                    |                                  |                |                      |                  |                | 748              |
|  |                      |                    |                                  |                |                      |                  |                | 758              |
|  |                      |                    |                                  |                |                      |                  |                | 808              |
|  |                      |                    |                                  |                |                      |                  |                | 812              |
|  |                      |                    |                                  |                |                      |                  |                | 817              |
|  |                      |                    |                                  |                |                      |                  |                | 822              |
|  |                      |                    |                                  |                |                      |                  |                | 827              |
|  |                      |                    |                                  |                |                      |                  |                | 832              |
|  |                      |                    |                                  |                |                      |                  |                | 834              |
|  |                      |                    |                                  |                |                      |                  |                | 836              |
|  |                      |                    |                                  |                |                      |                  |                | 838              |
|  |                      |                    |                                  |                |                      |                  |                | 840              |
|  |                      |                    |                                  |                |                      |                  |                | 842              |
|  |                      |                    |                                  |                |                      |                  |                | 844              |
|  |                      |                    |                                  |                |                      |                  |                | 846              |
|  |                      |                    |                                  |                |                      |                  |                | 848              |
|  |                      |                    |                                  |                |                      |                  |                | 850              |
|  |                      |                    |                                  |                |                      |                  |                | 852              |
|  |                      |                    |                                  |                |                      |                  |                | 854              |
|  |                      |                    |                                  |                |                      |                  |                | 856              |
|  |                      |                    |                                  |                |                      |                  |                | 858              |
|  |                      |                    |                                  |                |                      |                  |                | 900              |
|  |                      |                    |                                  |                |                      |                  |                | 902              |
|  |                      |                    |                                  |                |                      |                  |                | 904              |
|  |                      |                    |                                  |                |                      |                  |                | 906              |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

| 1974                                       | SELECTED RUNOFF EVENT |                    |                |                |                      | RIESEL (WACO), TEXAS WATERSHED Y |                |                |               |                  |
|--|-----------------------|--------------------|----------------|----------------|----------------------|----------------------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                       |                    | RAINFALL       |                |                      | RUNOFF                           |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches)                 | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |                    |                |                |                      |                                  |                |                |               |                  |
|  |                       |                    |                | 10-31          |                      |                                  | 908            |                | 130.236       | 1.5780           |
|  |                       |                    |                |                |                      |                                  | 912            |                | 115.571       | 1.6042           |
|  |                       |                    |                |                |                      |                                  | 917            |                | 104.259       | 1.6331           |
|  |                       |                    |                |                |                      |                                  | 922            |                | 94.248        | 1.6593           |
|  |                       |                    |                |                |                      |                                  | 927            |                | 84.961        | 1.6840           |
|  |                       |                    |                |                |                      |                                  | 932            |                | 77.033        | 1.7053           |
|  |                       |                    |                |                |                      |                                  | 937            |                | 70.538        | 1.7247           |
|  |                       |                    |                |                |                      |                                  | 942            |                | 64.572        | 1.7433           |
|  |                       |                    |                |                |                      |                                  | 947            |                | 59.649        | 1.7597           |
|  |                       |                    |                |                |                      |                                  | 952            |                | 55.639        | 1.7749           |
|  |                       |                    |                |                |                      |                                  | 957            |                | 52.031        | 1.7897           |
|  |                       |                    |                |                |                      |                                  | 1007           |                | 48.121        | 1.8161           |
|  |                       |                    |                |                |                      |                                  | 1017           |                | 43.543        | 1.8408           |
|  |                       |                    |                |                |                      |                                  | 1027           |                | 38.400        | 1.8629           |
|  |                       |                    |                |                |                      |                                  | 1037           |                | 34.978        | 1.8822           |
|  |                       |                    |                |                |                      |                                  | 1047           |                | 31.160        | 1.9000           |
|  |                       |                    |                |                |                      |                                  | 1057           |                | 27.910        | 1.9160           |
|  |                       |                    |                |                |                      |                                  | 1117           |                | 22.490        | 1.9428           |
|  |                       |                    |                |                |                      |                                  | 1137           |                | 19.013        | 1.9649           |
|  |                       |                    |                |                |                      |                                  | 1157           |                | 15.738        | 1.9837           |
|  |                       |                    |                |                |                      |                                  | 1227           |                | 12.469        | 2.0063           |
|  |                       |                    |                |                |                      |                                  | 1257           |                | 10.860        | 2.0250           |
|  |                       |                    |                |                |                      |                                  | 1327           |                | 9.699         | 2.0415           |
|  |                       |                    |                |                |                      |                                  | 1357           |                | 8.959         | 2.0565           |
|  |                       |                    |                |                |                      |                                  | 1427           |                | 7.264         | 2.0695           |
|  |                       |                    |                |                |                      |                                  | 1457           |                | 6.319         | 2.0804           |
|  |                       |                    |                |                |                      |                                  | 1527           |                | 5.449         | 2.0898           |
|  |                       |                    |                |                |                      |                                  | 1557           |                | 4.637         | 2.0979           |
|  |                       |                    |                |                |                      |                                  | 1627           |                | 4.092         | 2.1049           |
|  |                       |                    |                |                |                      |                                  | 1657           |                | 3.597         | 2.1111           |
|  |                       |                    |                |                |                      |                                  | 1727           |                | 3.093         | 2.1165           |
|  |                       |                    |                |                |                      |                                  | 1757           |                | 2.634         | 2.1211           |
|  |                       |                    |                |                |                      |                                  | 1827           |                | 2.339         | 2.1250           |
|  |                       |                    |                |                |                      |                                  | 1857           |                | 2.142         | 2.1286           |
|  |                       |                    |                |                |                      |                                  | 1957           |                | 1.816         | 2.1350           |
|  |                       |                    |                |                |                      |                                  | 2057           |                | 1.618         | 2.1405           |
|  |                       |                    |                |                |                      |                                  | 2157           |                | 1.408         | 2.1454           |
|  |                       |                    |                |                |                      |                                  | 2257           |                | 1.263         | 2.1496           |
|  |                       |                    |                |                |                      |                                  | 2400           |                | 1.124         | 2.1537           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.



RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin. Lat. 31 deg. 28 min. 30 sec. N.; Long. 96 deg. 52 min. 46 sec. W.

AREA: 132.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS                      |       |         |       | WATERSHED Y-2 |       |        |       |        |        |        |      |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|---------------|-------|--------|-------|--------|--------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov           | Dec   | Annual |       |        |        |        |      |
| 1974  | P | 2.11              | 1.00  | 1.62   | 3.79  | 2.09    | 0.50  | 1.06                                      | 6.74  | 8.58    | 6.87  | 4.31          | 1.65  | 40.32  |       |        |        |        |      |
|   | Q | 0.151             | 0.061 | 0.001  | 0.780 | 0.035   | 0.0   | 0.0                                       | 0.0   | 2.868   | 3.393 | 1.879         | 0.292 | 9.458  |       |        |        |        |      |
| STA AV  | P | 2.20              | 2.57  | 2.55   | 3.94  | 4.19    | 3.39  | 1.83                                      | 2.26  | 2.88    | 3.05  | 2.95          | 2.53  | 34.32  |       |        |        |        |      |
|   | Q | 0.461             | 0.543 | 0.728  | 0.902 | 1.004   | 0.634 | 0.138                                     | 0.047 | 0.160   | 0.264 | 0.397         | 0.509 | 5.788  |       |        |        |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |               |       |        |       |        |        |        |      |
|   |   | Maximum Discharge |       | 1 Runr |       | 2 Runrs |       | Maximum Volume for Selected Time Interval |       | 6 Runrs |       | 12 Runrs      |       | 1 Day  |       | 2 Days |        | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date          | Vol.  | Date   | Vol.  | Date   | Vol.   | Date   | Vol. |
| 1974  |   | 9-17              | 1.077 | 9-17   | 0.923 | 9-17    | 1.306 | 10-31                                     | 2.419 | 10-31   | 2.933 | 10-30         | 3.331 | 10-30  | 3.417 | 10-30  | 3.613  |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |               |       |        |       |        |        |        |      |
|   |   | 5-1               | 4.070 | 5-1    | 3.110 | 5-1     | 5.470 | 5-1                                       | 7.080 | 5-1     | 7.280 | 5-1           | 7.460 | 4-30   | 9.640 | 4-29   | 10.600 |        |      |
|   |   | 1944              |       | 1944   |       | 1944    |       | 1944                                      |       | 1944    |       | 1944          |       | 1944   |       | 1944   |        |        |      |

NOTES: Watershed conditions: 20% cotton; 25% fall planted small grain, largely oats; 19% row grain sorghum; 35% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pnb. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974   |       | DAILY PRECIPITATION (inches) |       |       |       |      | RIESEL (WACO), TEXAS WATERSHED Y-2 |       |       |       |       |       |  |
|--------|-------|------------------------------|-------|-------|-------|------|------------------------------------|-------|-------|-------|-------|-------|--|
| Day    | Jan   | Feb                          | Mar   | Apr   | May   | Jun  | Jul                                | Aug   | Sep   | Oct   | Nov   | Dec   |  |
| 1      | 0.01E | 0.0                          | 0.0   | 0.0   | 1.23  | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 2      | 0.0   | 0.0                          | 0.0   | 0.0   | 0.01E | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   |  |
| 3      | 0.03E | 0.0                          | 0.0   | 0.0   | 0.02E | 0.0  | 0.0                                | 0.07E | 0.63  | 0.0   | 0.0   | 0.0   |  |
| 4      | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.31  | 0.0   |  |
| 5      | 0.0   | 0.0                          | 0.0   | 0.0   | 0.68  | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.15E |  |
| 6      | 0.01E | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 7      | 0.01E | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.79  | 0.0   |  |
| 8      | 0.01E | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.29  | 0.0   | 0.0   | 0.03E | 0.0   |  |
| 9      | 0.02E | 0.0                          | 0.03E | 0.0   | 0.0   | 0.27 | 0.0                                | 0.0   | 0.36  | 0.0   | 0.06  | 0.0   |  |
| 10     | 0.18  | 0.0                          | 0.18  | 0.0   | 0.15  | 0.0  | 0.0                                | 0.0   | 0.99  | 0.0   | 0.44  | 0.71  |  |
| 11     | 0.0   | 0.0                          | 0.17E | 1.01  | 0.0   | 0.0  | 0.06E                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 12     | 0.0   | 0.0                          | 0.19E | 0.0   | 0.0   | 0.23 | 0.0                                | 0.0   | 0.53  | 0.0   | 0.0   | 0.0   |  |
| 13     | 0.05E | 0.0                          | 0.0   | 2.02  | 0.0   | 0.0  | 0.0                                | 0.0   | 1.03  | 0.0   | 0.0   | 0.0   |  |
| 14     | 0.0   | 0.05E                        | 0.31  | 0.0   | 0.0   | 0.0  | 0.18                               | 0.0   | 0.59  | 0.80  | 0.0   | 0.0   |  |
| 15     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.08E                              | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 16     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.03E                              | 0.0   | 0.91  | 0.0   | 0.0   | 0.0   |  |
| 17     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 3.06  | 0.0   | 0.0   | 0.0   |  |
| 18     | 0.47  | 0.13E                        | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 19     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 20     | 0.0   | 0.0                          | 0.47  | 0.01E | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 21     | 0.0   | 0.82                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.11E | 0.0   | 0.0   | 0.0   |  |
| 22     | 0.0   | 0.0                          | 0.0   | 0.41  | 0.0   | 0.0  | 0.0                                | 1.22  | 0.0   | 0.0   | 0.0   | 0.0   |  |
| 23     | 0.33  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.0   | 0.0   | 2.10  | 0.0   |  |
| 24     | 0.27  | 0.0                          | 0.26  | 0.0   | 0.0   | 0.0  | 0.0                                | 0.0   | 0.08  | 0.14E | 0.24  | 0.31  |  |
| 25     | 0.43  | 0.0                          | 0.01E | 0.0   | 0.0   | 0.0  | 0.0                                | 0.01E | 0.26  | 0.0   | 0.0   | 0.0   |  |
| 26     | 0.29  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.20E                              | 2.18  | 0.03E | 0.0   | 0.0   | 0.10E |  |
| 27     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 0.11  | 0.0   | 0.0   | 0.0   | 0.07E |  |
| 28     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                | 1.01  | 0.0   | 0.86  | 0.0   | 0.05E |  |
| 29     | 0.0   | 0.0                          | 0.0   | 0.12E | 0.0   | 0.0  | 0.0                                | 0.75  | 0.0   | 0.0   | 0.33  | 0.05E |  |
| 30     | 0.0   | 0.0                          | 0.0   | 0.22  | 0.0   | 0.0  | 0.0                                | 1.10  | 0.0   | 1.68  | 0.0   | 0.09E |  |
| 31     | 0.0   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.51                               | 0.0   | 0.0   | 3.39  | 0.0   | 0.12E |  |
| TOTAL  | 2.11  | 1.00                         | 1.62  | 3.79  | 2.09  | 0.50 | 1.06                               | 6.74  | 8.58  | 6.87  | 4.31  | 1.65  |  |
| STA AV | 2.20  | 2.57                         | 2.55  | 3.94  | 4.19  | 3.39 | 1.83                               | 2.26  | 2.88  | 3.05  | 2.95  | 2.53  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 36 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-2 |        |        |        |        |        |       |       |       |        |        |        |        |
|--|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.002  | 0.0    | 0.0    | 0.170  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.212  | 0.021  |
| 2  | 0.0    | 0.003  | 0.0    | 0.0    | 0.001  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.064  | 0.021  |
| 3  | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.022  | 0.019  |
| 4  | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.177  | 0.019  |
| 5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.021  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.034  | 0.041  |
| 6  | 0.0    | 0.001  | 0.0    | 0.0    | 0.002  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.015  | 0.058  |
| 7  | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 1.037  | 0.016  |
| 8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.296  | 0.012  |
| 9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.108  | 0.012  |
| 10   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 1.299  | 0.618  |
| 11   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.146  | 0.158  |
| 12   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.023  | 0.035  |
| 13   | 0.0    | 0.0    | 0.0    | 2.234  | 0.0    | 0.0   | 0.0   | 0.0   | 0.275  | 0.0    | 0.009  | 0.025  |
| 14   | 0.0    | 0.0    | 0.0    | 2.094  | 0.0    | 0.0   | 0.0   | 0.0   | 0.928  | 0.0    | 0.007  | 0.029  |
| 15   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.110  | 0.0    | 0.011  | 0.024  |
| 16   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.009  | 0.0    | 0.015  | 0.017  |
| 17   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 13.357 | 0.0    | 0.018  | 0.013  |
| 18   | 0.002  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 1.041  | 0.0    | 0.018  | 0.012  |
| 19   | 0.057  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.075  | 0.0    | 0.017  | 0.012  |
| 20   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.011  | 0.0    | 0.009  | 0.011  |
| 21   | 0.0    | 0.327  | 0.003  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.012  | 0.0    | 0.007  | 0.011  |
| 22   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.007  | 0.0    | 0.008  | 0.013  |
| 23   | 0.004  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 3.802  | 0.017  |
| 24   | 0.106  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 2.766  | 0.058  |
| 25   | 0.117  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.050  | 0.0    | 0.052  | 0.034  |
| 26   | 0.537  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.017  | 0.0    | 0.032  | 0.036  |
| 27   | 0.012  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.007  | 0.0    | 0.022  | 0.037  |
| 28   | 0.004  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.002  | 0.002  | 0.021  | 0.034  |
| 29   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.001  | 0.124  | 0.039  |
| 30   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 2.085  | 0.048  | 0.062  |
| 31   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 16.729 | 0.0    | 0.104  |
| MEAN   | 0.0271 | 0.0120 | 0.0001 | 0.1443 | 0.0062 | 0.0   | 0.0   | 0.0   | 0.5301 | 0.6070 | 0.3473 | 0.0522 |
| INCHES   | 0.151  | 0.061  | 0.001  | 0.780  | 0.035  | 0.0   | 0.0   | 0.0   | 2.868  | 3.393  | 1.879  | 0.292  |
| STA AV   | 0.461  | 0.543  | 0.728  | 0.902  | 1.004  | 0.634 | 0.138 | 0.047 | 0.160  | 0.264  | 0.397  | 0.509  |

NOTES: To convert mean daily discharge in CPS to IR/DAY, multiply by 0.180316. Records began Jan. 1, 1939. STA AV based on 36 yr period.

| 1974 SELECTED RUOFF EVERT RIESEL (WACO), TEXAS WATERSHED Y-2  |          |          |          |        |           |          |        |        |         |        |          |  |
|---|----------|----------|----------|--------|-----------|----------|--------|--------|---------|--------|----------|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL |        |           |          |        |        |         |        |          |  |
| Date  | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Runoff  | Rate   | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   |        | (inches) |  |
| EVERT OF OCTOBER 30 - 31, 1974  |          |          |          |        |           |          |        |        |         |        |          |  |
| RG 00069B   |          |          |          |        |           |          |        |        |         |        |          |  |
| 10-30   | 1.73     | 0.376    | 10-30    | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 1.330   | 0.0    |          |  |
|   |          |          | 10-31    | 30     | 0.0       | 0.0      | 10-31  | 103    | 1.142   | 0.0098 |          |  |
|   |          |          |          | 40     | 0.1800    | 0.03     |        | 203    | 0.985   | 0.0178 |          |  |
|   |          |          |          | 200    | 0.0       | 0.03     |        | 233    | 0.958   | 0.0214 |          |  |
|   |          |          |          | 210    | 0.3600    | 0.09     |        | 253    | 1.033   | 0.0239 |          |  |
| WATERSHED CONDITIONS:   |          |          |          |        |           |          |        |        |         |        |          |  |
| 35% pasture, Bermudagrass and native grass, good cover, moderately grazed; 20% cotton; 25% fall planted oats; 19% row grain sorghum; 1% gravel roads. Cropland terraced, cultivated on contour. |          |          |          |        |           |          |        |        |         |        |          |  |
|   |          |          |          | 240    | 0.0       | 0.09     |        | 303    | 1.112   | 0.0252 |          |  |
|   |          |          |          | 245    | 0.2401    | 0.11     |        | 310    | 1.241   | 0.0263 |          |  |
|   |          |          |          | 250    | 0.3600    | 0.14     |        | 313    | 1.580   | 0.0268 |          |  |
|   |          |          |          | 255    | 0.4799    | 0.18     |        | 315    | 2.119   | 0.0273 |          |  |
|   |          |          |          | 300    | 0.2401    | 0.20     |        | 316    | 2.608   | 0.0276 |          |  |
|   |          |          |          | 305    | 0.3600    | 0.23     |        | 322    | 2.948   | 0.0296 |          |  |
|   |          |          |          | 310    | 1.0800    | 0.32     |        | 327    | 4.168   | 0.0319 |          |  |
|   |          |          |          | 315    | 4.8001    | 0.72     |        | 329    | 5.182   | 0.0330 |          |  |
|   |          |          |          | 320    | 3.4799    | 1.01     |        | 330    | 6.192   | 0.0338 |          |  |
|   |          |          |          | 325    | 0.2401    | 1.03     |        | 331    | 11.798  | 0.0349 |          |  |
|   |          |          |          | 340    | 0.0       | 1.03     |        | 332    | 42.960  | 0.0381 |          |  |
|   |          |          |          | 345    | 0.6000    | 1.08     |        | 333    | 61.109  | 0.0442 |          |  |
|   |          |          |          | 400    | 0.0       | 1.08     |        | 334    | 83.821  | 0.0549 |          |  |
|   |          |          |          | 405    | 0.3600    | 1.11     |        | 335    | 92.879  | 0.0652 |          |  |
|   |          |          |          | 410    | 0.7200    | 1.17     |        | 337    | 102.750 | 0.0882 |          |  |
|   |          |          |          | 415    | 1.0800    | 1.26     |        | 339    | 110.060 | 0.1163 |          |  |
|   |          |          |          | 420    | 0.3600    | 1.29     |        | 341    | 112.253 | 0.1424 |          |  |
|   |          |          |          | 425    | 0.0       | 1.29     |        | 343    | 110.789 | 0.1718 |          |  |
|   |          |          |          | 430    | 0.3600    | 1.32     |        | 345    | 109.333 | 0.2009 |          |  |
|   |          |          |          | 435    | 0.3602    | 1.35     |        | 347    | 105.604 | 0.2261 |          |  |
|   |          |          |          | 440    | 0.0       | 1.35     |        | 352    | 91.742  | 0.2870 |          |  |
|   |          |          |          | 445    | 0.2399    | 1.37     |        | 357    | 79.046  | 0.3421 |          |  |
|   |          |          |          | 450    | 0.3600    | 1.40     |        | 402    | 69.096  | 0.3877 |          |  |
|   |          |          |          | 500    | 0.9001    | 1.55     |        | 407    | 60.817  | 0.4278 |          |  |
|   |          |          |          | 510    | 1.0800    | 1.73     |        | 412    | 54.611  | 0.4650 |          |  |

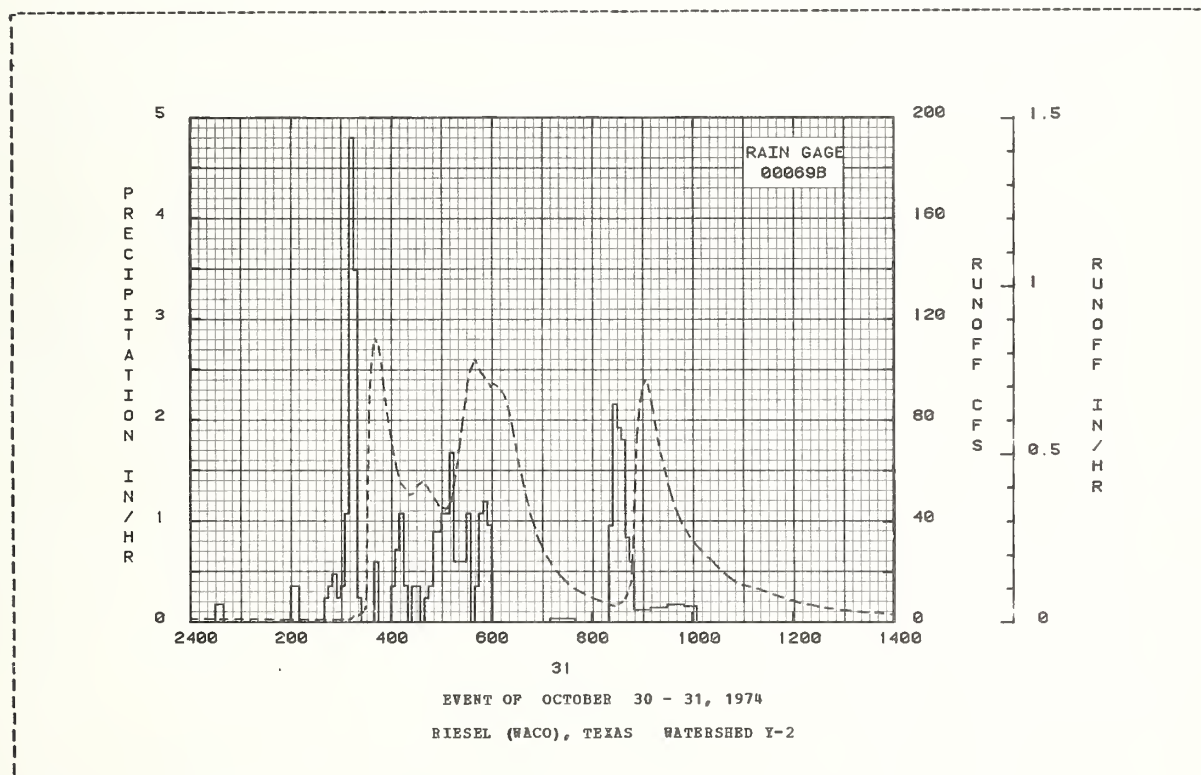
NOTES: To convert runoff in CPS to IR/HR, multiply by 0.007513.



NOTES: To convert runoff in CFS to IN/HB, multiply by 0.007513.

| 1974                                       | SELECTED RUNOFF EVENT |                    |                | RIESEL (WACO), TEXAS WATERSHED Y-2 |                      |                  |                |                |               |                  |  |
|--|-----------------------|--------------------|----------------|------------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|--|
| ANTECEDENT CONDITIONS                      |                       |                    | RAINFALL       |                                    |                      | RUNOFF           |                |                |               |                  |  |
| Date<br>Mo-Day                             | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                     | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |                    |                |                                    |                      |                  |                |                |               |                  |  |
|  |                       |                    |                |                                    |                      |                  | 10-31          | 947            | 39.172        | 2.5429           |  |
|  |                       |                    |                |                                    |                      |                  |                | 952            | 36.559        | 2.5663           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1002           | 31.231        | 2.6090           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1012           | 27.879        | 2.6463           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1022           | 24.671        | 2.6787           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1032           | 21.280        | 2.7077           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1042           | 18.265        | 2.7327           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1052           | 15.836        | 2.7537           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1100           | 14.750        | 2.7694           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1120           | 13.167        | 2.8042           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1140           | 10.668        | 2.8339           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1200           | 8.502         | 2.8581           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1230           | 6.216         | 2.8858           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1300           | 4.811         | 2.9065           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1330           | 3.879         | 2.9228           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1400           | 3.183         | 2.9361           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1430           | 2.693         | 2.9471           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1500           | 2.263         | 2.9564           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1530           | 1.888         | 2.9642           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1600           | 1.598         | 2.9708           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1700           | 1.210         | 2.9813           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1800           | 0.978         | 2.9895           |  |
|  |                       |                    |                |                                    |                      |                  |                | 1900           | 0.781         | 2.9961           |  |
|  |                       |                    |                |                                    |                      |                  |                | 2100           | 0.546         | 3.0061           |  |
|  |                       |                    |                |                                    |                      |                  |                | 2400           | 0.379         | 3.0165           |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



HIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco,; Brazos River Basin. Lat. 31 deg. 28 min. 26 sec. N.; Long. 96 deg. 53 min. 09 sec. W.

AREA: 16.30 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |       |       |   |       |       |       |       |       |       |       | HIESEL (WACO), TEXAS WATERSHED Y-6 |       |
|---|---|-------------------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|------------------------------------|-------|
|   |   | Jan               | Feb   | Mar   | Apr   | May                                       | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual                             |       |
| 1974  | P | 2.05              | 0.95  | 1.58  | 3.70  | 2.11                                      | 0.49  | 1.03  | 6.75  | 8.49  | 6.86  | 4.32  | 1.59  | 39.92                              |       |
|   | Q | 0.035             | 0.007 | 0.0   | 0.813 | 0.004                                     | 0.0   | 0.0   | 0.0   | 1.710 | 3.088 | 1.286 | 0.111 | 7.053                              |       |
| STA AV  | P | 2.06              | 2.57  | 2.27  | 3.89  | 3.76                                      | 3.58  | 1.83  | 2.33  | 2.93  | 3.30  | 2.92  | 2.35  | 33.78                              |       |
|   | Q | 0.303             | 0.323 | 0.408 | 0.647 | 0.704                                     | 0.616 | 0.129 | 0.053 | 0.140 | 0.349 | 0.377 | 0.352 | 4.402                              |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |       |       |   |       |       |       |       |       |       |       |                                    |       |
|   |   | Maximum Discharge |       |       |       | Maximum Volume for Selected Time Interval |       |       |       |       |       |       |       |                                    |       |
|   |   | Date              | Rate  | Date  | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date  | Vol.  | Date                               | Vol.  |
| 1974  |   | 4-13              | 1.030 | 9-17  | 0.665 | 10-31                                     | 1.085 | 10-31 | 2.317 | 10-31 | 2.776 | 10-30 | 3.066 | 10-30                              | 3.234 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |       |       |   |       |       |       |       |       |       |       |                                    |       |
|   |   | 6-10              | 3.790 | 3-29  | 1.900 | 3-29                                      | 2.340 | 3-29  | 2.950 | 3-29  | 3.130 | 3-29  | 3.670 | 11-22                              | 4.870 |
|   |   | 1941              |       | 1965  |       | 1965                                      |       | 1965  |       | 1965  |       | 1965  |       | 1940                               | 1957  |

NOTES: Watershed conditions: 93% sorghum; 5% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69H and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       |       | HIESEL (WACO), TEXAS WATERSHED Y-6 |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------------------------------------|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |       |                                    |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.26  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.01E | 0.0   | 0.0   |                                    |  |
| 3                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.01E | 0.0  | 0.0   | 0.06E | 0.62  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.32  | 0.0   | 0.0   |                                    |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.68  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.15E | 0.0   |                                    |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.77  | 0.0   | 0.0   |                                    |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.29  | 0.0   | 0.0  | 0.03  | 0.0   | 0.0   |                                    |  |
| 9                                 | 0.01E | 0.0   | 0.01E | 0.0   | 0.0   | 0.26 | 0.0   | 0.0   | 0.35  | 0.0  | 0.05  | 0.0   | 0.0   |                                    |  |
| 10                                | 0.17  | 0.0   | 0.09  | 0.0   | 0.16  | 0.0  | 0.0   | 0.0   | 0.98  | 0.0  | 0.44  | 0.71  | 0.0   |                                    |  |
| 11                                | 0.0   | 0.0   | 0.21E | 1.00  | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 12                                | 0.0   | 0.0   | 0.24E | 0.0   | 0.0   | 0.23 | 0.0   | 0.0   | 0.53  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 13                                | 0.05E | 0.0   | 0.0   | 1.97  | 0.0   | 0.0  | 0.0   | 0.0   | 1.01  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 14                                | 0.0   | 0.04E | 0.30  | 0.0   | 0.0   | 0.0  | 0.17  | 0.0   | 0.60  | 0.81 | 0.0   | 0.0   | 0.0   |                                    |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.08E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.04E | 0.0   | 0.83  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.12  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 18                                | 0.45  | 0.12E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 20                                | 0.0   | 0.0   | 0.45  | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 21                                | 0.0   | 0.79  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.09E | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.39  | 0.0   | 0.0  | 0.0   | 1.31  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 23                                | 0.34  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.14  | 0.0   | 0.0   |                                    |  |
| 24                                | 0.28  | 0.0   | 0.26  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.08  | 0.14 | 0.24  | 0.28  | 0.0   |                                    |  |
| 25                                | 0.41  | 0.0   | 0.02E | 0.0   | 0.0   | 0.0  | 0.0   | 0.01E | 0.26  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 26                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.20E | 2.15  | 0.02E | 0.0  | 0.0   | 0.0   | 0.09E |                                    |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.11  | 0.0   | 0.0  | 0.0   | 0.0   | 0.09E |                                    |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.00  | 0.0   | 0.86 | 0.0   | 0.05E | 0.0   |                                    |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.13E | 0.0   | 0.0  | 0.0   | 0.74  | 0.0   | 0.0  | 0.32  | 0.05E | 0.0   |                                    |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.21  | 0.0   | 0.0  | 0.0   | 1.08  | 0.0   | 1.69 | 0.0   | 0.06E | 0.0   |                                    |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.47  | 0.0   | 0.0   | 3.36 | 0.11E | 0.0   | 0.0   |                                    |  |
| TOTAL                             | 2.05  | 0.95  | 1.58  | 3.70  | 2.11  | 0.49 | 1.03  | 6.75  | 8.49  | 6.86 | 4.32  | 1.59  |       |                                    |  |
| STA AV                            | 2.06  | 2.57  | 2.27  | 3.89  | 3.76  | 3.58 | 1.83  | 2.33  | 2.93  | 3.30 | 2.92  | 2.35  |       |                                    |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69H and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974   |        | MEAN DAILY DISCHARGE (cfs) |       |        |        |       | RIESEL (WACO), TEXAS |       |        | WATERSHED Y-6 |        |        |
|--------|--------|----------------------------|-------|--------|--------|-------|----------------------|-------|--------|---------------|--------|--------|
| Day    | Jan    | Feb                        | Mar   | Apr    | May    | Jun   | Jul                  | Aug   | Sep    | Oct           | Nov    | Dec    |
| 1      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.003  | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.009  | 0.0 T  |
| 2      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.003  | 0.0    |
| 3      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.001  | 0.0    |
| 4      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.016  | 0.0    |
| 5      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.002  | 0.001  |
| 6      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.0    | 0.002  |
| 7      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.094  | 0.0 T  |
| 8      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.019  | 0.0    |
| 9      | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.006  | 0.0    |
| 10     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.086  | 0.030  |
| 11     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.006  | 0.006  |
| 12     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.001  | 0.002  |
| 13     | 0.0    | 0.0                        | 0.0   | 0.450  | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.0 T  | 0.002  |
| 14     | 0.0    | 0.0                        | 0.0   | 0.107  | 0.0    | 0.0   | 0.0                  | 0.0   | 0.020  | 0.0           | 0.0    | 0.003  |
| 15     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.001  | 0.0           | 0.0    | 0.002  |
| 16     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0 T  | 0.0           | 0.0    | 0.0 T  |
| 17     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 1.102  | 0.0           | 0.0    | 0.0    |
| 18     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.047  | 0.0           | 0.0    | 0.0 T  |
| 19     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.001  | 0.0           | 0.0    | 0.0    |
| 20     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.0    | 0.0    |
| 21     | 0.0    | 0.005                      | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.0    | 0.0    |
| 22     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.0    | 0.0    |
| 23     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.381  | 0.0    |
| 24     | 0.001  | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.242  | 0.004  |
| 25     | 0.002  | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0 T  | 0.0           | 0.002  | 0.002  |
| 26     | 0.020  | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.001  | 0.003  |
| 27     | 0.001  | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.001  | 0.003  |
| 28     | 0.0    | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.001  | 0.002  |
| 29     | 0.0    |                            | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.0           | 0.009  | 0.002  |
| 30     | 0.0    |                            | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                  | 0.0   | 0.0    | 0.191         | 0.001  | 0.003  |
| 31     | 0.0    |                            | 0.0   |        | 0.0    |       | 0.0                  | 0.0   |        | 1.924         |        | 0.007  |
| MEAN   | 0.0008 | 0.0002                     | 0.0   | 0.0186 | 0.0001 | 0.0   | 0.0                  | 0.0   | 0.0390 | 0.0682        | 0.0294 | 0.0025 |
| INCHES | 0.035  | 0.007                      | 0.0   | 0.813  | 0.004  | 0.0   | 0.0                  | 0.0   | 1.710  | 3.088         | 1.286  | 0.111  |
| STA AV | 0.303  | 0.323                      | 0.408 | 0.647  | 0.704  | 0.616 | 0.129                | 0.053 | 0.140  | 0.349         | 0.377  | 0.352  |

| 1974  | SELECTED RUNOFF EVENT |                    |                | RIESEL (WACO), TEXAS WATERSHED Y-6 |                      |                  |                |                |               |                  |  |
|---|-----------------------|--------------------|----------------|------------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|--|
| ANTECEDENT CONDITIONS   |                       |                    | RAINFALL       |                                    |                      |                  | RUNOFF         |                |               |                  |  |
| Date<br>Mo-Day  | Rainfall<br>(inches)  | Rnnoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                     | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |  |
| EVENT OF OCTOBER 31, 1974   |                       |                    |                |                                    |                      |                  |                |                |               |                  |  |
| RG 00069R   |                       |                    | RG 00069R      |                                    |                      |                  |                |                |               |                  |  |
| 10-31   | 0.0                   | 0.011              | 10-31          | 30                                 | 0.0                  | 0.0              | 10-31          | 249            | 0.072         | 0.0              |  |
|   |                       |                    |                | 40                                 | 0.1800               | 0.03             |                | 304            | 0.122         | 0.0015           |  |
|   |                       |                    |                | 200                                | 0.0                  | 0.03             |                | 309            | 0.166         | 0.0022           |  |
|   |                       |                    |                | 210                                | 0.3600               | 0.09             |                | 311            | 0.212         | 0.0025           |  |
|   |                       |                    |                | 240                                | 0.0                  | 0.09             |                | 312            | 0.272         | 0.0028           |  |
| WATERSHED CONDITIONS:<br>93% sorghum; 5% pasture,<br>Berndagrass, good cover,<br>moderately grazed; 2%<br>gravel roads. Cropland<br>terraced, cultivated on<br>contour. |                       |                    |                | 245                                | 0.2401               | 0.11             |                | 313            | 0.373         | 0.0031           |  |
|   |                       |                    |                | 250                                | 0.3600               | 0.14             |                | 314            | 0.453         | 0.0035           |  |
|   |                       |                    |                | 255                                | 0.4799               | 0.18             |                | 315            | 0.595         | 0.0041           |  |
|   |                       |                    |                | 300                                | 0.2401               | 0.20             |                | 316            | 0.749         | 0.0048           |  |
|   |                       |                    |                | 305                                | 0.3600               | 0.23             |                | 317            | 1.179         | 0.0057           |  |
|   |                       |                    |                | 310                                | 1.0800               | 0.32             |                | 318            | 2.787         | 0.0076           |  |
|   |                       |                    |                | 315                                | 4.8001               | 0.72             |                | 319            | 5.573         | 0.0126           |  |
|   |                       |                    |                | 320                                | 3.4799               | 1.01             |                | 320            | 6.364         | 0.0182           |  |
|   |                       |                    |                | 325                                | 0.2401               | 1.03             |                | 322            | 7.019         | 0.0309           |  |
|   |                       |                    |                | 340                                | 0.0                  | 1.03             |                | 324            | 7.686         | 0.0467           |  |
|   |                       |                    |                | 345                                | 0.6000               | 1.08             |                | 325            | 9.430         | 0.0548           |  |
|   |                       |                    |                | 400                                | 0.0                  | 1.08             |                | 326            | 10.703        | 0.0644           |  |
|   |                       |                    |                | 405                                | 0.3600               | 1.11             |                | 328            | 12.045        | 0.0887           |  |
|   |                       |                    |                | 410                                | 0.7200               | 1.17             |                | 330            | 12.429        | 0.1149           |  |
|   |                       |                    |                | 415                                | 1.0800               | 1.26             |                | 332            | 12.603        | 0.1387           |  |
|   | 420                   | 0.3600             | 1.29           |                                    | 334                  | 12.603           | 0.1656         |                |               |                  |  |
|   | 425                   | 0.0                | 1.29           |                                    | 337                  | 12.257           | 0.2011         |                |               |                  |  |
|   | 430                   | 0.3600             | 1.32           |                                    | 340                  | 11.545           | 0.2379         |                |               |                  |  |
|   | 435                   | 0.3602             | 1.35           |                                    | 344                  | 10.356           | 0.2821         |                |               |                  |  |
|   | 440                   | 0.0                | 1.35           |                                    | 349                  | 9.181            | 0.3332         |                |               |                  |  |
|   | 445                   | 0.2399             | 1.37           |                                    | 354                  | 7.939            | 0.3759         |                |               |                  |  |
|   | 450                   | 0.3600             | 1.40           |                                    | 359                  | 6.700            | 0.4124         |                |               |                  |  |
|   | 500                   | 0.9001             | 1.55           |                                    | 404                  | 5.986            | 0.4456         |                |               |                  |  |
|   | 510                   | 1.0800             | 1.73           |                                    | 409                  | 5.828            | 0.4751         |                |               |                  |  |
|   | 515                   | 1.6800             | 1.87           |                                    | 414                  | 5.907            | 0.5044         |                |               |                  |  |



| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS WATERSHED Y-6 |        |           |          |        |        |        |          |
|---------------------------------------|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                           |        |           | RUNOFF   |        |        |        |          |
| Date                                  | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |        |          |
| 10-31                                 |          |          | 530                                |        | 0.6000    | 2.02     | 10-31  | 419    | 6.364  | 0.5364   |
|                                       |          |          | 535                                |        | 1.0800    | 2.11     |        | 424    | 6.815  | 0.5693   |
|                                       |          |          | 540                                |        | 0.0       | 2.11     |        | 429    | 6.931  | 0.6036   |
|                                       |          |          | 545                                |        | 0.3600    | 2.14     |        | 439    | 6.391  | 0.6717   |
|                                       |          |          | 550                                |        | 1.0800    | 2.23     |        | 449    | 5.598  | 0.7330   |
|                                       |          |          | 555                                |        | 1.2001    | 2.33     |        | 459    | 6.960  | 0.7956   |
|                                       |          |          | 600                                |        | 0.9600    | 2.41     |        | 509    | 7.531  | 0.8697   |
|                                       |          |          | 710                                |        | 0.0       | 2.41     |        | 514    | 9.538  | 0.9123   |
|                                       |          |          | 740                                |        | 0.0400    | 2.43     |        | 519    | 11.463 | 0.9672   |
|                                       |          |          | 820                                |        | 0.0       | 2.43     |        | 524    | 11.627 | 1.0248   |
|                                       |          |          | 825                                |        | 0.9600    | 2.51     |        | 534    | 11.627 | 1.1436   |
|                                       |          |          | 830                                |        | 2.1601    | 2.69     |        | 539    | 11.381 | 1.2010   |
|                                       |          |          | 835                                |        | 1.9200    | 2.85     |        | 544    | 10.509 | 1.2557   |
|                                       |          |          | 840                                |        | 1.7999    | 3.00     |        | 549    | 10.280 | 1.3100   |
|                                       |          |          | 845                                |        | 0.8399    | 3.07     |        | 554    | 10.782 | 1.3626   |
|                                       |          |          | 850                                |        | 0.6000    | 3.12     |        | 559    | 11.586 | 1.4184   |
|                                       |          |          | 910                                |        | 0.1200    | 3.16     |        | 604    | 11.099 | 1.4777   |
|                                       |          |          | 930                                |        | 0.1500    | 3.21     |        | 614    | 8.697  | 1.5765   |
|                                       |          |          | 950                                |        | 0.1800    | 3.27     |        | 624    | 6.530  | 1.6543   |
|                                       |          |          | 1005                               |        | 0.1600    | 3.31     |        | 634    | 5.155  | 1.7140   |
|                                       |          |          |                                    |        |           |          |        | 644    | 3.869  | 1.7591   |
|                                       |          |          |                                    |        |           |          |        | 654    | 3.048  | 1.7944   |
|                                       |          |          |                                    |        |           |          |        | 704    | 2.556  | 1.8230   |
|                                       |          |          |                                    |        |           |          |        | 714    | 2.109  | 1.8463   |
|                                       |          |          |                                    |        |           |          |        | 724    | 1.750  | 1.8660   |
|                                       |          |          |                                    |        |           |          |        | 734    | 1.499  | 1.8826   |
|                                       |          |          |                                    |        |           |          |        | 744    | 1.289  | 1.8966   |
|                                       |          |          |                                    |        |           |          |        | 754    | 1.099  | 1.9088   |
|                                       |          |          |                                    |        |           |          |        | 804    | 0.934  | 1.9191   |
|                                       |          |          |                                    |        |           |          |        | 814    | 0.826  | 1.9279   |
|                                       |          |          |                                    |        |           |          |        | 819    | 0.749  | 1.9320   |
|                                       |          |          |                                    |        |           |          |        | 824    | 0.755  | 1.9358   |
|                                       |          |          |                                    |        |           |          |        | 829    | 0.900  | 1.9399   |
|                                       |          |          |                                    |        |           |          |        | 832    | 1.037  | 1.9429   |
|                                       |          |          |                                    |        |           |          |        | 834    | 1.351  | 1.9455   |
|                                       |          |          |                                    |        |           |          |        | 835    | 1.740  | 1.9469   |
|                                       |          |          |                                    |        |           |          |        | 836    | 2.206  | 1.9488   |
|                                       |          |          |                                    |        |           |          |        | 837    | 2.678  | 1.9511   |
|                                       |          |          |                                    |        |           |          |        | 838    | 3.116  | 1.9546   |
|                                       |          |          |                                    |        |           |          |        | 839    | 3.772  | 1.9578   |
|                                       |          |          |                                    |        |           |          |        | 840    | 4.132  | 1.9616   |
|                                       |          |          |                                    |        |           |          |        | 841    | 4.966  | 1.9659   |
|                                       |          |          |                                    |        |           |          |        | 842    | 5.907  | 1.9724   |
|                                       |          |          |                                    |        |           |          |        | 843    | 6.757  | 1.9784   |
|                                       |          |          |                                    |        |           |          |        | 844    | 7.686  | 1.9853   |
|                                       |          |          |                                    |        |           |          |        | 845    | 9.041  | 1.9952   |
|                                       |          |          |                                    |        |           |          |        | 846    | 10.091 | 2.0043   |
|                                       |          |          |                                    |        |           |          |        | 848    | 11.099 | 2.0244   |
|                                       |          |          |                                    |        |           |          |        | 850    | 11.793 | 2.0489   |
|                                       |          |          |                                    |        |           |          |        | 852    | 11.960 | 2.0715   |
|                                       |          |          |                                    |        |           |          |        | 854    | 11.751 | 2.0969   |
|                                       |          |          |                                    |        |           |          |        | 859    | 10.742 | 2.1530   |
|                                       |          |          |                                    |        |           |          |        | 904    | 9.683  | 2.2064   |
|                                       |          |          |                                    |        |           |          |        | 909    | 8.428  | 2.2516   |
|                                       |          |          |                                    |        |           |          |        | 914    | 7.624  | 2.2917   |
|                                       |          |          |                                    |        |           |          |        | 919    | 6.700  | 2.3291   |
|                                       |          |          |                                    |        |           |          |        | 929    | 5.598  | 2.3905   |
|                                       |          |          |                                    |        |           |          |        | 939    | 4.669  | 2.4429   |
|                                       |          |          |                                    |        |           |          |        | 949    | 3.869  | 2.4866   |
|                                       |          |          |                                    |        |           |          |        | 1001   | 3.544  | 2.5315   |
|                                       |          |          |                                    |        |           |          |        | 1021   | 2.693  | 2.5945   |
|                                       |          |          |                                    |        |           |          |        | 1041   | 1.913  | 2.6410   |
|                                       |          |          |                                    |        |           |          |        | 1101   | 1.451  | 2.6754   |
|                                       |          |          |                                    |        |           |          |        | 1121   | 1.068  | 2.7008   |
|                                       |          |          |                                    |        |           |          |        | 1141   | 0.780  | 2.7195   |
|                                       |          |          |                                    |        |           |          |        | 1201   | 0.558  | 2.7332   |
|                                       |          |          |                                    |        |           |          |        | 1221   | 0.406  | 2.7429   |
|                                       |          |          |                                    |        |           |          |        | 1241   | 0.318  | 2.7502   |
|                                       |          |          |                                    |        |           |          |        | 1301   | 0.263  | 2.7562   |
|                                       |          |          |                                    |        |           |          |        | 1331   | 0.205  | 2.7633   |
|                                       |          |          |                                    |        |           |          |        | 1401   | 0.166  | 2.7689   |
|                                       |          |          |                                    |        |           |          |        | 1431   | 0.137  | 2.7735   |
|                                       |          |          |                                    |        |           |          |        | 1501   | 0.111  | 2.7773   |
|                                       |          |          |                                    |        |           |          |        | 1601   | 0.077  | 2.7830   |
|                                       |          |          |                                    |        |           |          |        | 1701   | 0.052  | 2.7869   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.060843.



RISRL (WACO), TEXAS WATERSHED Y-7

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 08 sec. N.; Long. 96 deg. 52 min. 49 sec. W.

AREA: 40.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESER (WACO), TEXAS WATERSHED Y-7 |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|------------------------------------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 2.07              | 1.05  | 1.61   | 3.51  | 2.23    | 0.45  | 1.15                               | 7.03  | 8.54     | 6.62  | 4.63  | 1.61  | 40.50  |       |        |       |
|   | Q | 0.170             | 0.072 | 0.0    | 0.471 | 0.186   | 0.0   | 0.0                                | 0.003 | 3.098    | 2.869 | 1.948 | 0.136 | 8.953  |       |        |       |
| STA AV  | P | 2.10              | 2.61  | 2.30   | 3.99  | 3.77    | 3.57  | 1.81                               | 2.39  | 2.88     | 3.29  | 2.95  | 2.37  | 34.03  |       |        |       |
|   | Q | 0.383             | 0.447 | 0.612  | 0.863 | 0.823   | 0.722 | 0.122                              | 0.103 | 0.232    | 0.323 | 0.492 | 0.451 | 5.571  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |                                    |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours                            |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                               | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 9-17              | 0.906 | 9-17   | 0.788 | 9-17    | 1.198 | 10-31                              | 2.052 | 10-31    | 2.592 | 10-30 | 2.857 | 10-30  | 2.872 | 9-10   | 3.094 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |                                    |       |          |       |       |       |        |       |        |       |
|   |   | 6-10              | 3.590 | 4-19   | 2.340 | 3-29    | 2.960 | 3-29                               | 3.580 | 3-29     | 3.840 | 3-29  | 4.660 | 11-22  | 5.370 | 4-19   | 8.890 |
|   |   | 1941              |       | 1957   |       | 1965    |       | 1965                               |       | 1965     |       | 1965  |       | 1940   |       | 1957   |       |

NOTES: Watershed conditions: 88% pasture, Bermudagrass, moderately grazed; 12% sorghum. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 89 and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974   | DAILY PRECIPITATION (inches) |       |       |       |       |      | RISRL (WACO), TEXAS WATERSHED Y-7 |       |       |      |      |       |       |     |
|--------|------------------------------|-------|-------|-------|-------|------|-----------------------------------|-------|-------|------|------|-------|-------|-----|
| Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun  | Jul                               | Aug   | Sep   | Oct  | Nov  | Dec   |       |     |
| 1      | 0.01R                        | 0.0   | 0.0   | 0.0   | 1.36  | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 2      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.01E | 0.0   | 0.0 |
| 3      | 0.02E                        | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0                               | 0.05E | 0.64  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 4      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.29  | 0.0   | 0.0 |
| 5      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.69  | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.17R | 0.0 |
| 6      | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 7      | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.78  | 0.0   | 0.0 |
| 8      | 0.01R                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.29  | 0.0   | 0.0  | 0.0  | 0.04  | 0.0   | 0.0 |
| 9      | 0.01E                        | 0.0   | 0.06R | 0.0   | 0.0   | 0.23 | 0.0                               | 0.0   | 0.39  | 0.0  | 0.0  | 0.07  | 0.0   | 0.0 |
| 10     | 0.21                         | 0.0   | 0.24  | 0.0   | 0.16  | 0.0  | 0.0                               | 0.0   | 0.99  | 0.0  | 0.44 | 0.71  | 0.0   | 0.0 |
| 11     | 0.0                          | 0.0   | 0.03E | 1.04  | 0.0   | 0.0  | 0.06R                             | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 12     | 0.0                          | 0.0   | 0.25  | 0.0   | 0.0   | 0.22 | 0.0                               | 0.0   | 0.54  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 13     | 0.05E                        | 0.0   | 0.0   | 1.69  | 0.0   | 0.0  | 0.0                               | 0.0   | 1.09  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 14     | 0.0                          | 0.05R | 0.31  | 0.0   | 0.0   | 0.0  | 0.15                              | 0.0   | 0.49  | 0.85 | 0.0  | 0.0   | 0.0   | 0.0 |
| 15     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.08R                             | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 16     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.14E                             | 0.0   | 0.82  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 17     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 3.20  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 18     | 0.41                         | 0.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 19     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 20     | 0.0                          | 0.0   | 0.43  | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 21     | 0.0                          | 0.81  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.12R | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 22     | 0.0                          | 0.0   | 0.0   | 0.42  | 0.0   | 0.0  | 0.0                               | 1.66  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 23     | 0.28                         | 0.03  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.0   | 0.0  | 0.0  | 2.39  | 0.0   | 0.0 |
| 24     | 0.34                         | 0.0   | 0.29  | 0.0   | 0.0   | 0.0  | 0.0                               | 0.0   | 0.09  | 0.15 | 0.28 | 0.29  | 0.0   | 0.0 |
| 25     | 0.43                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.12R | 0.13  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0 |
| 26     | 0.28                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.19R                             | 2.11  | 0.04R | 0.0  | 0.0  | 0.0   | 0.10R | 0.0 |
| 27     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.14  | 0.0   | 0.0  | 0.0  | 0.0   | 0.07R | 0.0 |
| 28     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                               | 0.95  | 0.0   | 0.67 | 0.0  | 0.04E | 0.0   | 0.0 |
| 29     | 0.0                          | 0.0   | 0.0   | 0.12E | 0.0   | 0.0  | 0.0                               | 0.70  | 0.0   | 0.0  | 0.33 | 0.04R | 0.0   | 0.0 |
| 30     | 0.0                          | 0.0   | 0.0   | 0.24  | 0.0   | 0.0  | 0.0                               | 1.01  | 0.0   | 1.51 | 0.0  | 0.08E | 0.0   | 0.0 |
| 31     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.53                              | 0.0   | 0.0   | 3.44 | 0.0  | 0.11E | 0.0   | 0.0 |
| TOTAL  | 2.07                         | 1.05  | 1.61  | 3.51  | 2.23  | 0.45 | 1.15                              | 7.03  | 8.54  | 6.62 | 4.63 | 1.61  |       |     |
| STA AV | 2.10                         | 2.61  | 2.30  | 3.99  | 3.77  | 3.57 | 1.81                              | 2.39  | 2.88  | 3.29 | 2.95 | 2.37  |       |     |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 89 and W-2A. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSRED Y-7 |        |        |       |        |        |       |       |        |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.297  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.009  | 0.0    |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.014  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.165  | 0.0    |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.017  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  | 0.0    |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.097  | 0.0    | 0.200  | 0.181  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.016  | 0.043  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.001  |
| 13   | 0.0    | 0.0    | 0.0   | 0.206  | 0.0    | 0.0   | 0.0   | 0.0    | 0.325  | 0.0    | 0.0    | 0.0    |
| 14   | 0.0    | 0.0    | 0.0   | 0.586  | 0.0    | 0.0   | 0.0   | 0.0    | 0.268  | 0.0    | 0.0    | 0.0    |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 0.0    | 0.0    |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 4.316  | 0.0    | 0.0    | 0.0    |
| 18   | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.193  | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.120  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 1.851  | 0.0    |
| 24   | 0.016  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.997  | 0.0    |
| 25   | 0.029  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.006  | 0.0    |
| 26   | 0.240  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    |
| 27   | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 29   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  | 0.0    |
| 30   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.005  | 0.0    | 0.431  | 0.001  | 0.0 T  |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 4.390  | 0.003  | 0.003  |
| MEAN   | 0.0092 | 0.0043 | 0.0   | 0.0264 | 0.0101 | 0.0   | 0.0   | 0.0002 | 0.1735 | 0.1555 | 0.1091 | 0.0074 |
| INCRS  | 0.170  | 0.072  | 0.0   | 0.471  | 0.186  | 0.0   | 0.0   | 0.003  | 3.098  | 2.869  | 1.948  | 0.136  |
| STA AV   | 0.383  | 0.447  | 0.612 | 0.863  | 0.823  | 0.722 | 0.122 | 0.103  | 0.232  | 0.323  | 0.492  | 0.451  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.595041. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period.

| 1974  | SELECTED RUNOFF EVENT |          |          |                 |           | RIESEL (WACO), TEXAS WATERSBED Y-7 |        |        |       |          |  |  |
|---|-----------------------|----------|----------|-----------------|-----------|------------------------------------|--------|--------|-------|----------|--|--|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL |                 |           | RUNOFF                             |        |        |       |          |  |  |
| Date  | Rainfall              | Runoff   | Date     | Time            | Intensity | Acc.                               | Date   | Time   | Rate  | Acc.     |  |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day   | of Day          | (in/hr)   | (inches)                           | Mo-Day | of Day | (cfs) | (inches) |  |  |
| EVENT OF OCTOBER 31, 1974   |                       |          |          |                 |           |                                    |        |        |       |          |  |  |
| 10-31   | RG 000089<br>0.0      | 0.005    | 10-31    | RG 000089<br>30 | 0.0       | 0.0                                | 10-31  | 240    | 0.062 | 0.0      |  |  |
|   |                       |          |          | 100             | 0.1000    | 0.05                               |        | 300    | 0.090 | 0.0007   |  |  |
|   |                       |          |          | 150             | 0.0       | 0.05                               |        | 305    | 0.118 | 0.0009   |  |  |
|   |                       |          |          | 200             | 0.1800    | 0.08                               |        | 308    | 0.160 | 0.0010   |  |  |
|   |                       |          |          | 235             | 0.0       | 0.08                               |        | 310    | 0.266 | 0.0012   |  |  |
| WATERSBED CONDITIONS:<br>88% pasture, Bermudagrass,<br>fair cover, moderately<br>grazed; 12% sorghum. |                       |          |          |                 |           |                                    |        |        |       |          |  |  |
|   |                       |          |          | 240             | 0.1199    | 0.09                               |        | 312    | 0.437 | 0.0015   |  |  |
|   |                       |          |          | 250             | 0.2400    | 0.13                               |        | 313    | 0.583 | 0.0017   |  |  |
|   |                       |          |          | 300             | 0.2401    | 0.17                               |        | 314    | 0.792 | 0.0020   |  |  |
|   |                       |          |          | 305             | 0.8399    | 0.24                               |        | 315    | 1.055 | 0.0024   |  |  |
|   |                       |          |          | 308             | 2.6001    | 0.37                               |        | 320    | 1.135 | 0.0047   |  |  |
|   |                       |          |          | 310             | 4.5003    | 0.52                               |        | 325    | 1.200 | 0.0070   |  |  |
|   |                       |          |          | 312             | 6.2997    | 0.73                               |        | 327    | 1.183 | 0.0081   |  |  |
|   |                       |          |          | 314             | 5.9999    | 0.93                               |        | 328    | 1.314 | 0.0085   |  |  |
|   |                       |          |          | 316             | 2.1002    | 1.00                               |        | 329    | 1.504 | 0.0091   |  |  |
|   |                       |          |          | 320             | 0.3001    | 1.02                               |        | 330    | 1.853 | 0.0099   |  |  |
|   |                       |          |          | 335             | 0.0       | 1.02                               |        | 331    | 2.259 | 0.0107   |  |  |
|   |                       |          |          | 340             | 0.3600    | 1.05                               |        | 333    | 2.729 | 0.0126   |  |  |
|   |                       |          |          | 400             | 0.0       | 1.05                               |        | 335    | 3.212 | 0.0152   |  |  |
|   |                       |          |          | 405             | 0.7200    | 1.11                               |        | 337    | 3.723 | 0.0179   |  |  |
|   |                       |          |          | 410             | 2.0400    | 1.28                               |        | 339    | 4.282 | 0.0214   |  |  |
|   |                       |          |          | 412             | 3.3000    | 1.39                               |        | 340    | 4.869 | 0.0232   |  |  |
|   |                       |          |          | 420             | 0.0750    | 1.40                               |        | 341    | 5.216 | 0.0251   |  |  |
|   |                       |          |          | 425             | 0.3600    | 1.43                               |        | 342    | 5.799 | 0.0278   |  |  |
|   |                       |          |          | 430             | 0.3600    | 1.46                               |        | 343    | 6.310 | 0.0301   |  |  |
|   |                       |          |          | 440             | 0.1800    | 1.49                               |        | 344    | 6.886 | 0.0327   |  |  |
|   |                       |          |          | 445             | 0.2401    | 1.51                               |        | 345    | 7.605 | 0.0362   |  |  |
|   |                       |          |          | 450             | 0.6000    | 1.56                               |        | 346    | 8.116 | 0.0392   |  |  |
|   |                       |          |          | 455             | 0.7200    | 1.62                               |        | 348    | 8.905 | 0.0458   |  |  |
|   |                       |          |          | 500             | 0.6000    | 1.67                               |        | 350    | 9.446 | 0.0538   |  |  |
|   |                       |          |          | 505             | 0.9600    | 1.75                               |        | 352    | 9.803 | 0.0613   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024793.

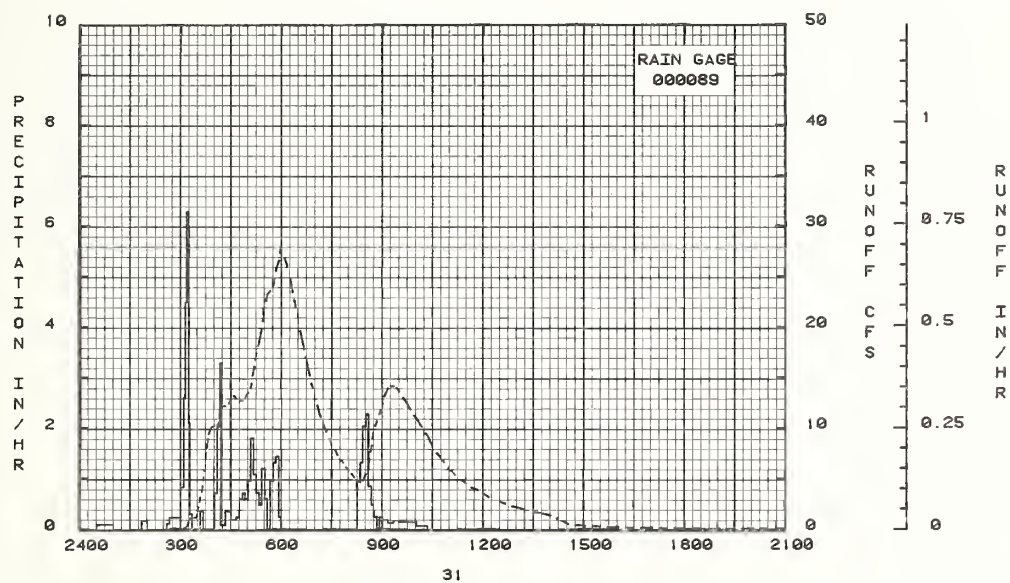


| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS WATERSHED Y-7 |        |           |          |        |        |       |
|---------------------------------------|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|-------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                           |        |           | RUNOFF   |        |        |       |
| Date                                  | Rainfall | Runoff   | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate  |
| Mo-Day                                | (inches) | (inches) | Mo-Day                             | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |       |
| 10-31                                 | 510      | 1.7999   | 1.90                               | 10-31  | 355       | 10.110   | 0.0738 |        |       |
|                                       | 515      | 1.0800   | 1.99                               |        | 400       | 10.307   | 0.0956 |        |       |
|                                       | 520      | 0.7202   | 2.05                               |        | 405       | 10.420   | 0.1167 |        |       |
|                                       | 525      | 0.4799   | 2.09                               |        | 408       | 10.590   | 0.1299 |        |       |
|                                       | 530      | 1.2001   | 2.19                               |        | 410       | 11.166   | 0.1383 |        |       |
|                                       | 535      | 0.5999   | 2.24                               |        | 412       | 11.842   | 0.1483 |        |       |
|                                       | 540      | 0.0      | 2.24                               |        | 415       | 12.230   | 0.1635 |        |       |
|                                       | 545      | 0.9600   | 2.32                               |        | 420       | 12.230   | 0.1884 |        |       |
|                                       | 550      | 1.3200   | 2.43                               |        | 425       | 12.471   | 0.2135 |        |       |
|                                       | 555      | 1.4401   | 2.55                               |        | 430       | 12.867   | 0.2405 |        |       |
|                                       | 600      | 0.2399   | 2.57                               |        | 435       | 13.236   | 0.2670 |        |       |
|                                       | 815      | 0.0      | 2.57                               |        | 440       | 12.867   | 0.2936 |        |       |
|                                       | 820      | 0.9600   | 2.65                               |        | 445       | 12.714   | 0.3208 |        |       |
|                                       | 825      | 1.3200   | 2.76                               |        | 450       | 12.714   | 0.3467 |        |       |
|                                       | 830      | 2.0400   | 2.93                               |        | 455       | 13.051   | 0.3729 |        |       |
|                                       | 835      | 2.2800   | 3.12                               |        | 500       | 13.577   | 0.4012 |        |       |
|                                       | 840      | 0.8401   | 3.19                               |        | 505       | 14.049   | 0.4293 |        |       |
|                                       | 845      | 0.4799   | 3.23                               |        | 507       | 14.494   | 0.4404 |        |       |
|                                       | 850      | 0.2401   | 3.25                               |        | 509       | 15.464   | 0.4534 |        |       |
|                                       | 855      | 0.0      | 3.25                               |        | 511       | 16.124   | 0.4657 |        |       |
|                                       | 900      | 0.2401   | 3.27                               |        | 513       | 16.827   | 0.4800 |        |       |
|                                       | 910      | 0.1800   | 3.30                               |        | 515       | 17.473   | 0.4950 |        |       |
|                                       | 920      | 0.1199   | 3.32                               |        | 520       | 18.651   | 0.5317 |        |       |
|                                       | 930      | 0.1800   | 3.35                               |        | 525       | 19.893   | 0.5709 |        |       |
|                                       | 1000     | 0.1400   | 3.42                               |        | 530       | 21.903   | 0.6154 |        |       |
|                                       | 1020     | 0.0600   | 3.44                               |        | 535       | 23.294   | 0.6614 |        |       |
|                                       |          |          |                                    |        | 540       | 23.637   | 0.7091 |        |       |
|                                       |          |          |                                    |        | 545       | 24.136   | 0.7600 |        |       |
|                                       |          |          |                                    |        | 550       | 25.774   | 0.8108 |        |       |
|                                       |          |          |                                    |        | 555       | 26.647   | 0.8641 |        |       |
|                                       |          |          |                                    |        | 558       | 27.734   | 0.8983 |        |       |
|                                       |          |          |                                    |        | 600       | 27.491   | 0.9224 |        |       |
|                                       |          |          |                                    |        | 605       | 26.807   | 0.9776 |        |       |
|                                       |          |          |                                    |        | 610       | 26.051   | 1.0314 |        |       |
|                                       |          |          |                                    |        | 615       | 24.833   | 1.0856 |        |       |
|                                       |          |          |                                    |        | 620       | 23.446   | 1.1347 |        |       |
|                                       |          |          |                                    |        | 625       | 21.865   | 1.1807 |        |       |
|                                       |          |          |                                    |        | 630       | 20.362   | 1.2257 |        |       |
|                                       |          |          |                                    |        | 635       | 19.180   | 1.2659 |        |       |
|                                       |          |          |                                    |        | 640       | 17.782   | 1.3035 |        |       |
|                                       |          |          |                                    |        | 645       | 16.525   | 1.3401 |        |       |
|                                       |          |          |                                    |        | 650       | 15.171   | 1.3723 |        |       |
|                                       |          |          |                                    |        | 655       | 14.112   | 1.4021 |        |       |
|                                       |          |          |                                    |        | 700       | 12.989   | 1.4309 |        |       |
|                                       |          |          |                                    |        | 705       | 12.020   | 1.4564 |        |       |
|                                       |          |          |                                    |        | 710       | 11.050   | 1.4798 |        |       |
|                                       |          |          |                                    |        | 715       | 10.363   | 1.5026 |        |       |
|                                       |          |          |                                    |        | 720       | 9.610    | 1.5230 |        |       |
|                                       |          |          |                                    |        | 725       | 8.985    | 1.5419 |        |       |
|                                       |          |          |                                    |        | 730       | 8.324    | 1.5603 |        |       |
|                                       |          |          |                                    |        | 735       | 7.833    | 1.5767 |        |       |
|                                       |          |          |                                    |        | 740       | 7.304    | 1.5921 |        |       |
|                                       |          |          |                                    |        | 745       | 6.886    | 1.6072 |        |       |
|                                       |          |          |                                    |        | 750       | 6.548    | 1.6209 |        |       |
|                                       |          |          |                                    |        | 755       | 6.123    | 1.6338 |        |       |
|                                       |          |          |                                    |        | 800       | 5.754    | 1.6464 |        |       |
|                                       |          |          |                                    |        | 805       | 5.460    | 1.6578 |        |       |
|                                       |          |          |                                    |        | 810       | 5.107    | 1.6686 |        |       |
|                                       |          |          |                                    |        | 815       | 4.847    | 1.6792 |        |       |
|                                       |          |          |                                    |        | 820       | 4.614    | 1.6888 |        |       |
|                                       |          |          |                                    |        | 825       | 4.826    | 1.6984 |        |       |
|                                       |          |          |                                    |        | 830       | 5.438    | 1.7093 |        |       |
|                                       |          |          |                                    |        | 835       | 6.216    | 1.7212 |        |       |
|                                       |          |          |                                    |        | 837       | 6.983    | 1.7263 |        |       |
|                                       |          |          |                                    |        | 839       | 7.731    | 1.7327 |        |       |
|                                       |          |          |                                    |        | 841       | 8.324    | 1.7389 |        |       |
|                                       |          |          |                                    |        | 843       | 9.012    | 1.7465 |        |       |
|                                       |          |          |                                    |        | 845       | 9.665    | 1.7546 |        |       |
|                                       |          |          |                                    |        | 847       | 10.279   | 1.7624 |        |       |
|                                       |          |          |                                    |        | 850       | 10.762   | 1.7756 |        |       |
|                                       |          |          |                                    |        | 855       | 11.429   | 1.7982 |        |       |
|                                       |          |          |                                    |        | 900       | 12.471   | 1.8236 |        |       |
|                                       |          |          |                                    |        | 905       | 13.391   | 1.8499 |        |       |
|                                       |          |          |                                    |        | 910       | 13.954   | 1.8777 |        |       |
|                                       |          |          |                                    |        | 915       | 14.175   | 1.9077 |        |       |

NOTES: To convert runoff in CFS to IH/HR, multiply by 0.024793.

| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS |        |           | WATERSRED Y-7 |        |        |
|---------------------------------------|----------|----------|----------------------|--------|-----------|---------------|--------|--------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL             |        |           | RUNOFF        |        |        |
| Date                                  | Rainfall | Runoff   | Date                 | Time   | Intensity | Acc.          | Date   | Time   |
| Mo-Day                                | (inches) | (inches) | Mo-Day               | of Day | (in/hr)   | (inches)      | Mo-Day | of Day |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                      |        |           |               |        |        |
|                                       |          |          |                      | 10-31  |           |               |        |        |
|                                       |          |          |                      | 920    |           |               |        | 14.175 |
|                                       |          |          |                      | 925    |           |               |        | 13.954 |
|                                       |          |          |                      | 930    |           |               |        | 13.609 |
|                                       |          |          |                      | 940    |           |               |        | 12.775 |
|                                       |          |          |                      | 950    |           |               |        | 11.842 |
|                                       |          |          |                      | 1000   |           |               |        | 10.963 |
|                                       |          |          |                      | 1010   |           |               |        | 10.110 |
|                                       |          |          |                      | 1020   |           |               |        | 9.255  |
|                                       |          |          |                      | 1030   |           |               |        | 8.142  |
|                                       |          |          |                      | 1040   |           |               |        | 7.329  |
|                                       |          |          |                      | 1050   |           |               |        | 6.596  |
|                                       |          |          |                      | 1100   |           |               |        | 5.914  |
|                                       |          |          |                      | 1110   |           |               |        | 5.371  |
|                                       |          |          |                      | 1120   |           |               |        | 4.912  |
|                                       |          |          |                      | 1130   |           |               |        | 4.509  |
|                                       |          |          |                      | 1140   |           |               |        | 4.079  |
|                                       |          |          |                      | 1150   |           |               |        | 3.860  |
|                                       |          |          |                      | 1200   |           |               |        | 3.474  |
|                                       |          |          |                      | 1210   |           |               |        | 3.139  |
|                                       |          |          |                      | 1220   |           |               |        | 2.904  |
|                                       |          |          |                      | 1240   |           |               |        | 2.490  |
|                                       |          |          |                      | 1300   |           |               |        | 2.131  |
|                                       |          |          |                      | 1320   |           |               |        | 1.808  |
|                                       |          |          |                      | 1340   |           |               |        | 1.561  |
|                                       |          |          |                      | 1400   |           |               |        | 1.354  |
|                                       |          |          |                      | 1432   |           |               |        | 0.473  |
|                                       |          |          |                      | 1502   |           |               |        | 0.303  |
|                                       |          |          |                      | 1602   |           |               |        | 0.163  |
|                                       |          |          |                      | 1702   |           |               |        | 0.109  |
|                                       |          |          |                      | 1802   |           |               |        | 0.070  |
|                                       |          |          |                      | 1902   |           |               |        | 0.044  |
|                                       |          |          |                      | 2002   |           |               |        | 0.026  |
|                                       |          |          |                      | 2202   |           |               |        | 0.009  |
|                                       |          |          |                      | 2400   |           |               |        | 0.003  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024793.



EVENT OF OCTOBER 31, 1974  
RIESEL (WACO), TEXAS WATERSRED Y-7

RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. W.

AREA: 20.80 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS WATERSHED Y-8        |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 2.08              | 1.04  | 1.57   | 3.68  | 2.11    | 0.48  | 1.08                                      | 6.93  | 8.58  | 6.91  | 4.30  | 1.60  | 40.36  |       |        |       |
|   | Q | 0.018             | 0.008 | 0.0    | 0.709 | 0.074   | 0.0   | 0.0                                       | 0.034 | 2.345 | 2.256 | 1.087 | 0.127 | 6.658  |       |        |       |
| STA AV  | P | 2.00              | 2.58  | 2.34   | 3.98  | 3.68    | 3.70  | 1.88                                      | 2.38  | 3.03  | 3.43  | 2.96  | 2.38  | 34.36  |       |        |       |
|   | Q | 0.346             | 0.365 | 0.486  | 0.752 | 0.723   | 0.672 | 0.159                                     | 0.066 | 0.195 | 0.316 | 0.415 | 0.402 | 4.898  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4-13              | 1.295 | 9-17   | 0.863 | 9-17    | 1.066 | 10-31                                     | 1.728 | 10-31 | 1.986 | 10-30 | 2.223 | 10-30  | 2.272 | 9-10   | 2.344 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |       |
|   |   | 6-10              | 3.290 | 4-19   | 2.410 | 4-19    | 2.800 | 4-23                                      | 3.320 | 4-23  | 3.370 | 3-29  | 3.590 | 11-22  | 5.640 | 4-19   | 9.100 |
|   |   | 1941              |       | 1957   |       | 1957    |       | 1957                                      |       | 1957  |       | 1965  |       | 1940   |       | 1957   |       |

NOTES: Watershed conditions: 95% cotton; 3% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       |       | RIESEL (WACO), TEXAS WATERSHED Y-8 |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------------------------------------|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |       |                                    |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.26  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.02E | 0.0   | 0.0   |                                    |  |
| 3                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.08E | 0.65  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.21  | 0.0   | 0.0   |                                    |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.68  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.15E | 0.0   |                                    |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.78  | 0.0   | 0.0   |                                    |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.30  | 0.0   | 0.0  | 0.03  | 0.0   | 0.0   |                                    |  |
| 9                                 | 0.01E | 0.0   | 0.03E | 0.0   | 0.0   | 0.28 | 0.0   | 0.0   | 0.40  | 0.0  | 0.06  | 0.0   | 0.0   |                                    |  |
| 10                                | 0.19  | 0.0   | 0.26  | 0.0   | 0.15  | 0.0  | 0.0   | 0.0   | 1.00  | 0.0  | 0.44  | 0.70  | 0.0   |                                    |  |
| 11                                | 0.0   | 0.0   | 0.08E | 1.05  | 0.0   | 0.0  | 0.06E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 12                                | 0.0   | 0.0   | 0.19  | 0.0   | 0.0   | 0.20 | 0.0   | 0.0   | 0.54  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 13                                | 0.04E | 0.0   | 0.0   | 1.87  | 0.0   | 0.0  | 0.0   | 0.0   | 1.06  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 14                                | 0.0   | 0.05E | 0.30  | 0.0   | 0.0   | 0.0  | 0.18  | 0.0   | 0.60  | 0.86 | 0.0   | 0.0   | 0.0   |                                    |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.05E | 0.0   | 0.78  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.11  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 18                                | 0.46  | 0.15  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 20                                | 0.0   | 0.0   | 0.44  | 0.01E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 21                                | 0.0   | 0.84  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.10E | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.42  | 0.0   | 0.0  | 0.0   | 1.46  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 23                                | 0.33  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.19  | 0.0   | 0.0   |                                    |  |
| 24                                | 0.27  | 0.0   | 0.27  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.09  | 0.14 | 0.23  | 0.27  | 0.0   |                                    |  |
| 25                                | 0.44  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.04E | 0.20  | 0.0  | 0.0   | 0.0   | 0.0   |                                    |  |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.19  | 2.09  | 0.05E | 0.0  | 0.0   | 0.0   | 0.12E |                                    |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.12  | 0.0   | 0.0  | 0.0   | 0.07E | 0.0   |                                    |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.02  | 0.0   | 0.83 | 0.0   | 0.04E | 0.0   |                                    |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.11E | 0.0   | 0.0  | 0.0   | 0.74  | 0.0   | 0.0  | 0.34  | 0.04E | 0.0   |                                    |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.22  | 0.0   | 0.0  | 0.0   | 1.08  | 0.0   | 1.62 | 0.0   | 0.09E | 0.0   |                                    |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.53  | 0.0   | 0.0   | 3.46 | 0.12E | 0.0   | 0.12E |                                    |  |
| TOTAL                             | 2.08  | 1.04  | 1.57  | 3.68  | 2.11  | 0.48 | 1.08  | 6.93  | 8.58  | 6.91 | 4.30  | 1.60  |       |                                    |  |
| STA AV                            | 2.00  | 2.58  | 2.34  | 3.98  | 3.68  | 3.70 | 1.88  | 2.38  | 3.03  | 3.43 | 2.96  | 2.38  |       |                                    |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-8 |        |        |       |        |        |       |       |        |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.064  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.019  | 0.001  |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.002  |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.003  |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.061  | 0.001  |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.030  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.008  | 0.0    |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.152  | 0.034  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.014  | 0.015  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.005  |
| 13   | 0.0    | 0.0    | 0.0   | 0.555  | 0.0    | 0.0   | 0.0   | 0.0    | 0.044  | 0.0    | 0.0    | 0.002  |
| 14   | 0.0    | 0.0    | 0.0   | 0.065  | 0.0    | 0.0   | 0.0   | 0.0    | 0.093  | 0.0    | 0.0    | 0.002  |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.002  |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0 T  |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 1.853  | 0.0    | 0.0    | 0.0    |
| 18   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.058  | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.007  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.443  | 0.0    |
| 24   | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.205  | 0.003  |
| 25   | 0.002  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.001  |
| 26   | 0.013  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.004  |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.003  |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.004  |
| 29   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.009  | 0.003  |
| 30   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.030  | 0.0    | 0.191  | 0.001  | 0.010  |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 1.780  | 0.016  | 0.016  |
| MEAN   | 0.0005 | 0.0002 | 0.0   | 0.0206 | 0.0021 | 0.0   | 0.0   | 0.0010 | 0.0683 | 0.0636 | 0.0317 | 0.0036 |
| INCRS  | 0.018  | 0.008  | 0.0   | 0.709  | 0.074  | 0.0   | 0.0   | 0.034  | 2.345  | 2.256  | 1.087  | 0.127  |
| STA AV   | 0.346  | 0.365  | 0.486 | 0.752  | 0.723  | 0.672 | 0.159 | 0.066  | 0.195  | 0.316  | 0.415  | 0.402  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period.

| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | RIESEL (WACO), TEXAS |        |        | WATERSHED Y-8 |          |  |
|--|----------|----------|-----------------------|--------|-----------|----------------------|--------|--------|---------------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL              |        |           | RUNOFF               |        |        |               |          |  |
| Date   | Rainfall | Rnoff    | Date                  | Time   | Intensity | Acc.                 | Date   | Time   | Rate          | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs)         | (inches) |  |
| EVENT OF OCTOBER 31, 1974  |          |          |                       |        |           |                      |        |        |               |          |  |
| RG 00075A  |          |          | RG 00075A             |        |           |                      |        |        |               |          |  |
| 10-31  | 0.0      | 0.012    | 10-31                 | 35     | 0.0       | 0.0                  | 10-31  | 200    | 0.111         | 0.0      |  |
|  |          |          |                       | 50     | 0.1600    | 0.04                 |        | 230    | 0.123         | 0.0028   |  |
|  |          |          |                       | 200    | 0.0       | 0.04                 |        | 302    | 0.179         | 0.0066   |  |
|  |          |          |                       | 205    | 0.3602    | 0.07                 |        | 309    | 0.211         | 0.0077   |  |
|  |          |          |                       | 240    | 0.0       | 0.07                 |        | 310    | 0.440         | 0.0079   |  |
| WATERSHED CONDITIONS:<br>95% cotton; 3% pasture,<br>Bermudagrass, good cover,<br>moderately grazed, dormant;<br>2% gravel roads. Crop-<br>land terraced, cultivated<br>on contour. |          |          |                       | 250    | 0.1199    | 0.09                 |        | 313    | 0.581         | 0.0092   |  |
|  |          |          |                       | 300    | 0.3600    | 0.15                 |        | 315    | 0.757         | 0.0103   |  |
|  |          |          |                       | 305    | 0.3600    | 0.18                 |        | 316    | 0.962         | 0.0109   |  |
|  |          |          |                       | 310    | 0.8401    | 0.25                 |        | 317    | 2.037         | 0.0120   |  |
|  |          |          |                       | 312    | 5.0999    | 0.42                 |        | 318    | 7.354         | 0.0155   |  |
|  |          |          |                       | 314    | 5.0999    | 0.59                 |        | 319    | 9.555         | 0.0234   |  |
|  |          |          |                       | 316    | 7.8003    | 0.85                 |        | 320    | 10.647        | 0.0309   |  |
|  |          |          |                       | 318    | 4.2000    | 0.99                 |        | 321    | 11.575        | 0.0392   |  |
|  |          |          |                       | 320    | 2.4001    | 1.07                 |        | 322    | 12.200        | 0.0481   |  |
|  |          |          |                       | 335    | 0.0       | 1.07                 |        | 323    | 12.623        | 0.0596   |  |
|  |          |          |                       | 340    | 0.2399    | 1.09                 |        | 324    | 13.020        | 0.0692   |  |
|  |          |          |                       | 350    | 0.1800    | 1.12                 |        | 326    | 13.671        | 0.0891   |  |
|  |          |          |                       | 404    | 0.0       | 1.12                 |        | 328    | 13.112        | 0.1115   |  |
|  |          |          |                       | 410    | 0.8000    | 1.20                 |        | 330    | 12.592        | 0.1330   |  |
|  | 414      | 0.7500   | 1.25                  |        | 332       | 11.812               | 0.1512 |        |               |          |  |
|  | 420      | 0.3999   | 1.29                  |        | 335       | 10.222               | 0.1779 |        |               |          |  |
|  | 425      | 0.1201   | 1.30                  |        | 340       | 9.066                | 0.2156 |        |               |          |  |
|  | 430      | 0.2401   | 1.32                  |        | 345       | 7.504                | 0.2496 |        |               |          |  |
|  | 435      | 0.3600   | 1.35                  |        | 348       | 6.524                | 0.2652 |        |               |          |  |
|  | 440      | 0.2399   | 1.37                  |        | 351       | 5.618                | 0.2799 |        |               |          |  |
|  | 445      | 0.1201   | 1.38                  |        | 354       | 4.912                | 0.2927 |        |               |          |  |
|  | 450      | 0.3600   | 1.41                  |        | 357       | 4.302                | 0.3038 |        |               |          |  |
|  | 455      | 0.6000   | 1.46                  |        | 400       | 3.704                | 0.3135 |        |               |          |  |
|  | 500      | 0.9598   | 1.54                  |        | 405       | 3.267                | 0.3272 |        |               |          |  |
|  | 505      | 1.0801   | 1.63                  |        | 408       | 3.493                | 0.3354 |        |               |          |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.

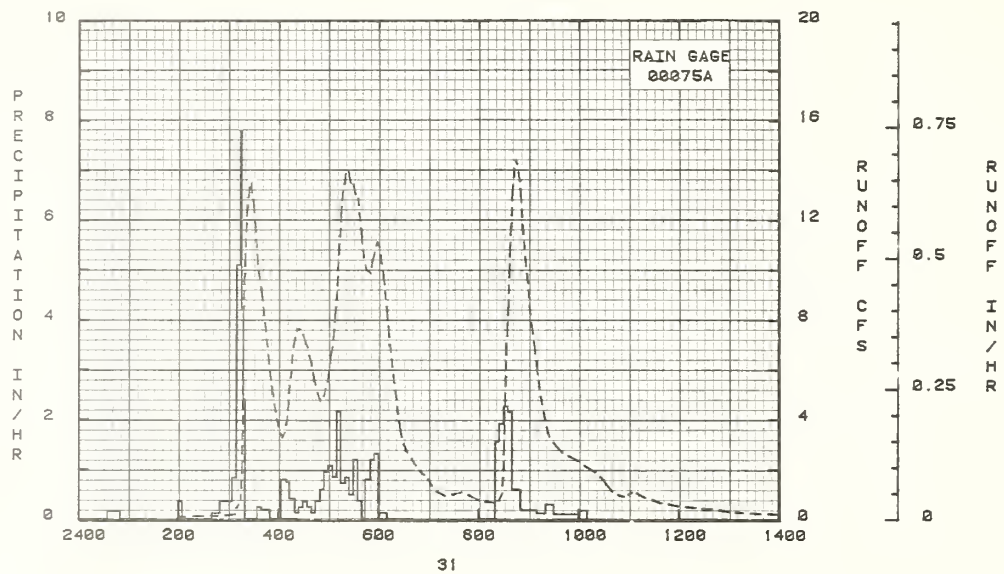


| 1974      SELECTED RUNOFF EVENT                      |                      |                    | RIESEL (WACO), TEXAS      WATERSHED Y-8 |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                                |                      |                    | RAINFALL                                |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                                       | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                          | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF      OCTOBER      31, 1974      (CONTINUED) |                      |                    |   |                |                      |                  |                |                |               |                  |
| 10-31  |                      |                    |   | 510            | 0.8399               | 1.70             | 10-31          | 411            | 4.119         | 0.3439           |
|  |                      |                    |   | 515            | 2.1601               | 1.88             |                | 413            | 4.783         | 0.3513           |
|  |                      |                    |   | 520            | 0.7200               | 1.94             |                | 415            | 5.686         | 0.3601           |
|  |                      |                    |   | 525            | 0.8399               | 2.01             |                | 417            | 6.596         | 0.3692           |
|  |                      |                    |   | 530            | 0.4801               | 2.05             |                | 420            | 7.279         | 0.3860           |
|  |                      |                    |   | 535            | 1.1999               | 2.15             |                | 423            | 7.630         | 0.4041           |
|  |                      |                    |   | 540            | 0.3600               | 2.18             |                | 426            | 7.605         | 0.4211           |
|  |                      |                    |   | 544            | 0.0                  | 2.18             |                | 430            | 7.379         | 0.4462           |
|  |                      |                    |   | 550            | 0.8000               | 2.26             |                | 435            | 6.861         | 0.4741           |
|  |                      |                    |   | 555            | 1.2001               | 2.36             |                | 440            | 6.146         | 0.4995           |
|  |                      |                    |   | 600            | 1.3200               | 2.47             |                | 445            | 5.371         | 0.5231           |
|  |                      |                    |   | 610            | 0.1200               | 2.49             |                | 450            | 4.741         | 0.5429           |
|  |                      |                    |   | 820            | 0.0                  | 2.49             |                | 455            | 4.955         | 0.5618           |
|  |                      |                    |   | 825            | 1.5599               | 2.62             |                | 500            | 5.663         | 0.5836           |
|  |                      |                    |   | 830            | 1.9200               | 2.78             |                | 503            | 6.524         | 0.5972           |
|  |                      |                    |   | 835            | 2.2800               | 2.97             |                | 505            | 6.934         | 0.6085           |
|  |                      |                    |   | 840            | 2.1599               | 3.15             |                | 507            | 7.630         | 0.6193           |
|  |                      |                    |   | 850            | 0.6000               | 3.25             |                | 509            | 8.507         | 0.6329           |
|  |                      |                    |   | 900            | 0.1800               | 3.28             |                | 511            | 9.720         | 0.6464           |
|  |                      |                    |   | 910            | 0.1800               | 3.31             |                | 513            | 11.050        | 0.6639           |
|  |                      |                    |   | 920            | 0.1200               | 3.33             |                | 515            | 12.230        | 0.6834           |
|  |                      |                    |   | 930            | 0.3000               | 3.38             |                | 517            | 13.174        | 0.7023           |
|  |                      |                    |   | 1000           | 0.1000               | 3.43             |                | 520            | 13.859        | 0.7350           |
|  |                      |                    |   | 1010           | 0.1801               | 3.46             |                | 523            | 14.017        | 0.7688           |
|  |                      |                    |   |                |                      |                  |                | 526            | 13.484        | 0.7995           |
|  |                      |                    |   |                |                      |                  |                | 529            | 13.422        | 0.8321           |
|  |                      |                    |   |                |                      |                  |                | 532            | 13.051        | 0.8641           |
|  |                      |                    |   |                |                      |                  |                | 535            | 12.867        | 0.8955           |
|  |                      |                    |   |                |                      |                  |                | 540            | 11.079        | 0.9423           |
|  |                      |                    |   |                |                      |                  |                | 545            | 9.998         | 0.9855           |
|  |                      |                    |   |                |                      |                  |                | 550            | 9.859         | 1.0243           |
|  |                      |                    |   |                |                      |                  |                | 555            | 10.705        | 1.0645           |
|  |                      |                    |   |                |                      |                  |                | 558            | 11.137        | 1.0910           |
|  |                      |                    |   |                |                      |                  |                | 601            | 10.877        | 1.1176           |
|  |                      |                    |   |                |                      |                  |                | 604            | 10.222        | 1.1432           |
|  |                      |                    |   |                |                      |                  |                | 607            | 9.418         | 1.1651           |
|  |                      |                    |   |                |                      |                  |                | 610            | 8.324         | 1.1866           |
|  |                      |                    |   |                |                      |                  |                | 613            | 7.304         | 1.2055           |
|  |                      |                    |   |                |                      |                  |                | 616            | 6.405         | 1.2221           |
|  |                      |                    |   |                |                      |                  |                | 619            | 5.460         | 1.2365           |
|  |                      |                    |   |                |                      |                  |                | 622            | 4.804         | 1.2480           |
|  |                      |                    |   |                |                      |                  |                | 625            | 3.880         | 1.2585           |
|  |                      |                    |   |                |                      |                  |                | 628            | 3.286         | 1.2671           |
|  |                      |                    |   |                |                      |                  |                | 631            | 2.958         | 1.2747           |
|  |                      |                    |   |                |                      |                  |                | 635            | 2.660         | 1.2836           |
|  |                      |                    |   |                |                      |                  |                | 640            | 2.423         | 1.2935           |
|  |                      |                    |   |                |                      |                  |                | 645            | 2.147         | 1.3029           |
|  |                      |                    |   |                |                      |                  |                | 650            | 1.944         | 1.3109           |
|  |                      |                    |   |                |                      |                  |                | 655            | 1.778         | 1.3182           |
|  |                      |                    |   |                |                      |                  |                | 700            | 1.603         | 1.3251           |
|  |                      |                    |   |                |                      |                  |                | 705            | 1.327         | 1.3308           |
|  |                      |                    |   |                |                      |                  |                | 710            | 1.120         | 1.3356           |
|  |                      |                    |   |                |                      |                  |                | 720            | 0.926         | 1.3438           |
|  |                      |                    |   |                |                      |                  |                | 730            | 1.009         | 1.3516           |
|  |                      |                    |   |                |                      |                  |                | 740            | 1.095         | 1.3598           |
|  |                      |                    |   |                |                      |                  |                | 750            | 0.938         | 1.3679           |
|  |                      |                    |   |                |                      |                  |                | 800            | 0.768         | 1.3748           |
|  |                      |                    |   |                |                      |                  |                | 810            | 0.714         | 1.3805           |
|  |                      |                    |   |                |                      |                  |                | 820            | 0.662         | 1.3861           |
|  |                      |                    |   |                |                      |                  |                | 825            | 0.757         | 1.3888           |
|  |                      |                    |   |                |                      |                  |                | 829            | 1.070         | 1.3917           |
|  |                      |                    |   |                |                      |                  |                | 830            | 2.021         | 1.3932           |
|  |                      |                    |   |                |                      |                  |                | 831            | 3.157         | 1.3951           |
|  |                      |                    |   |                |                      |                  |                | 832            | 4.783         | 1.3980           |
|  |                      |                    |   |                |                      |                  |                | 833            | 5.731         | 1.4020           |
|  |                      |                    |   |                |                      |                  |                | 834            | 7.057         | 1.4079           |
|  |                      |                    |   |                |                      |                  |                | 835            | 7.910         | 1.4135           |
|  |                      |                    |   |                |                      |                  |                | 836            | 8.798         | 1.4197           |
|  |                      |                    |   |                |                      |                  |                | 837            | 9.942         | 1.4267           |
|  |                      |                    |   |                |                      |                  |                | 838            | 11.108        | 1.4365           |
|  |                      |                    |   |                |                      |                  |                | 839            | 11.901        | 1.4451           |
|  |                      |                    |   |                |                      |                  |                | 840            | 12.928        | 1.4543           |
|  |                      |                    |   |                |                      |                  |                | 841            | 13.422        | 1.4641           |
|  |                      |                    |   |                |                      |                  |                | 842            | 13.765        | 1.4768           |
|  |                      |                    |   |                |                      |                  |                | 844            | 14.430        | 1.4978           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.

| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS WATERSHED Y-8 |        |           |          |        |        |        |          |
|---------------------------------------|----------|----------|------------------------------------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                           |        |           | RUNOFF   |        |        |        |          |
| Date                                  | Rainfall | Rnoff    | Date                               | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| No-Day                                | (inches) | (inches) | No-Day                             | of Day | (in/hr)   | (inches) | No-Day | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                                    |        |           |          |        |        |        |          |
|                                       |          |          |                                    |        |           |          | 10-31  | 846    | 14.239 | 1.5218   |
|                                       |          |          |                                    |        |           |          |        | 848    | 13.859 | 1.5428   |
|                                       |          |          |                                    |        |           |          |        | 850    | 13.020 | 1.5653   |
|                                       |          |          |                                    |        |           |          |        | 853    | 11.723 | 1.5952   |
|                                       |          |          |                                    |        |           |          |        | 856    | 10.448 | 1.6200   |
|                                       |          |          |                                    |        |           |          |        | 859    | 9.473  | 1.6441   |
|                                       |          |          |                                    |        |           |          |        | 902    | 8.193  | 1.6655   |
|                                       |          |          |                                    |        |           |          |        | 905    | 7.429  | 1.6844   |
|                                       |          |          |                                    |        |           |          |        | 908    | 6.644  | 1.7015   |
|                                       |          |          |                                    |        |           |          |        | 911    | 5.822  | 1.7154   |
|                                       |          |          |                                    |        |           |          |        | 915    | 4.912  | 1.7334   |
|                                       |          |          |                                    |        |           |          |        | 920    | 3.979  | 1.7508   |
|                                       |          |          |                                    |        |           |          |        | 925    | 3.304  | 1.7650   |
|                                       |          |          |                                    |        |           |          |        | 930    | 3.084  | 1.7781   |
|                                       |          |          |                                    |        |           |          |        | 940    | 2.677  | 1.8006   |
|                                       |          |          |                                    |        |           |          |        | 950    | 2.490  | 1.8213   |
|                                       |          |          |                                    |        |           |          |        | 1000   | 2.341  | 1.8407   |
|                                       |          |          |                                    |        |           |          |        | 1010   | 2.068  | 1.8579   |
|                                       |          |          |                                    |        |           |          |        | 1020   | 1.898  | 1.8738   |
|                                       |          |          |                                    |        |           |          |        | 1030   | 1.575  | 1.8877   |
|                                       |          |          |                                    |        |           |          |        | 1040   | 1.133  | 1.8983   |
|                                       |          |          |                                    |        |           |          |        | 1050   | 0.938  | 1.9066   |
|                                       |          |          |                                    |        |           |          |        | 1055   | 0.903  | 1.9102   |
|                                       |          |          |                                    |        |           |          |        | 1100   | 1.022  | 1.9141   |
|                                       |          |          |                                    |        |           |          |        | 1105   | 1.095  | 1.9183   |
|                                       |          |          |                                    |        |           |          |        | 1110   | 1.058  | 1.9225   |
|                                       |          |          |                                    |        |           |          |        | 1120   | 0.869  | 1.9302   |
|                                       |          |          |                                    |        |           |          |        | 1130   | 0.768  | 1.9367   |
|                                       |          |          |                                    |        |           |          |        | 1140   | 0.662  | 1.9423   |
|                                       |          |          |                                    |        |           |          |        | 1200   | 0.533  | 1.9519   |
|                                       |          |          |                                    |        |           |          |        | 1220   | 0.458  | 1.9598   |
|                                       |          |          |                                    |        |           |          |        | 1240   | 0.397  | 1.9665   |
|                                       |          |          |                                    |        |           |          |        | 1300   | 0.314  | 1.9722   |
|                                       |          |          |                                    |        |           |          |        | 1330   | 0.239  | 1.9788   |
|                                       |          |          |                                    |        |           |          |        | 1400   | 0.201  | 1.9840   |
|                                       |          |          |                                    |        |           |          |        | 1500   | 0.150  | 1.9924   |
|                                       |          |          |                                    |        |           |          |        | 1600   | 0.118  | 1.9988   |
|                                       |          |          |                                    |        |           |          |        | 1800   | 0.092  | 2.0088   |
|                                       |          |          |                                    |        |           |          |        | 2100   | 0.050  | 2.0190   |
|                                       |          |          |                                    |        |           |          |        | 2400   | 0.034  | 2.0250   |

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.047680.



RIESEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 31 sec. N.; Long. 96 deg. 53 min. 10 sec. W.

AREA: 18.60 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |         |       |          |       |       |       | RIESEL (WACO), TEXAS WATERSHED Y-10 |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---------|-------|----------|-------|-------|-------|-------------------------------------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual                              |       |
| 1974  | P | 2.09              | 0.95  | 1.62   | 3.82  | 2.11    | 0.51  | 1.02    | 6.71  | 8.61     | 6.84  | 4.34  | 1.66  | 40.28                               |       |
|   | Q | 0.013             | 0.005 | 0.0    | 0.435 | 0.000   | 0.0   | 0.0     | 0.0   | 4.026    | 3.386 | 1.550 | 0.006 | 9.420                               |       |
| STA AV  | P | 2.13              | 2.49  | 2.30   | 3.89  | 3.78    | 3.47  | 1.80    | 2.29  | 2.93     | 3.20  | 2.87  | 2.39  | 33.54                               |       |
|   | Q | 0.416             | 0.375 | 0.553  | 0.860 | 0.699   | 0.702 | 0.178   | 0.080 | 0.290    | 0.357 | 0.455 | 0.431 | 5.399                               |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                     |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days                              |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date                                | Vol.  |
| 1974  |   | 10-31             | 1.260 | 9-17   | 0.813 | 9-17    | 1.240 | 10-31   | 2.402 | 10-31    | 2.811 | 10-30 | 3.300 | 10-30                               | 3.446 |
|   |   |                   |       |        |       |         |       |         |       |          |       |       |       | 9-12                                | 4.026 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                     |       |
|   |   | 4-19              | 3.730 | 4-19   | 2.900 | 4-19    | 3.480 | 3-29    | 4.130 | 3-29     | 4.270 | 3-29  | 4.620 | 4-23                                | 5.340 |
|   |   | 1957              |       | 1957   |       | 1957    |       | 1965    |       | 1965     |       | 1965  |       | 1957                                |       |

NOTES: Watershed conditions: 93% oats; 4% pasture; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       |  | RIESEL (WACO), TEXAS WATERSHED Y-10 |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|--|-------------------------------------|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |  |                                     |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.24  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.01E | 0.0   |  |                                     |  |
| 3                                 | 0.04E | 0.0   | 0.0   | 0.0   | 0.01E | 0.0  | 0.0   | 0.06E | 0.62  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.38  | 0.0   |  |                                     |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.68  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.14E |  |                                     |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.80  | 0.0   |  |                                     |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.29  | 0.0   | 0.0  | 0.03  | 0.0   |  |                                     |  |
| 9                                 | 0.02E | 0.0   | 0.01E | 0.0   | 0.0   | 0.26 | 0.0   | 0.0   | 0.33  | 0.0  | 0.05  | 0.0   |  |                                     |  |
| 10                                | 0.17  | 0.0   | 0.08  | 0.0   | 0.16  | 0.0  | 0.0   | 0.0   | 0.98  | 0.0  | 0.44  | 0.72  |  |                                     |  |
| 11                                | 0.0   | 0.0   | 0.24E | 0.98  | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 12                                | 0.0   | 0.0   | 0.22E | 0.0   | 0.0   | 0.25 | 0.0   | 0.0   | 0.52  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 13                                | 0.05E | 0.0   | 0.0   | 2.10  | 0.0   | 0.0  | 0.0   | 0.0   | 1.00  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 14                                | 0.0   | 0.05E | 0.31  | 0.0   | 0.0   | 0.0  | 0.17  | 0.0   | 0.62  | 0.76 | 0.0   | 0.0   |  |                                     |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.09E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.02E | 0.0   | 0.96  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.10  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 18                                | 0.46  | 0.11E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 20                                | 0.0   | 0.0   | 0.48  | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 21                                | 0.0   | 0.79  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.09E | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.39  | 0.0   | 0.0  | 0.0   | 1.19  | 0.0   | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 23                                | 0.34  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.06  | 0.0   |  |                                     |  |
| 24                                | 0.28  | 0.0   | 0.25  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.08  | 0.14 | 0.25  | 0.33  |  |                                     |  |
| 25                                | 0.41  | 0.0   | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.29  | 0.0  | 0.0   | 0.0   |  |                                     |  |
| 26                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.21E | 2.20  | 0.02E | 0.0  | 0.0   | 0.07E |  |                                     |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.10  | 0.0   | 0.0  | 0.0   | 0.09E |  |                                     |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.02  | 0.0   | 0.88 | 0.0   | 0.05E |  |                                     |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.13E | 0.0   | 0.0  | 0.0   | 0.75  | 0.0   | 0.0  | 0.32  | 0.05E |  |                                     |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.22  | 0.0   | 0.0  | 0.0   | 1.10  | 0.0   | 1.73 | 0.0   | 0.08E |  |                                     |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.46  | 0.0   | 3.33  | 0.0  | 0.13E | 0.0   |  |                                     |  |
| TOTAL                             | 2.09  | 0.95  | 1.62  | 3.82  | 2.11  | 0.51 | 1.02  | 6.71  | 8.61  | 6.84 | 4.34  | 1.66  |  |                                     |  |
| STA AV                            | 2.13  | 2.49  | 2.30  | 3.89  | 3.78  | 3.47 | 1.80  | 2.29  | 2.93  | 3.20 | 2.87  | 2.39  |  |                                     |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.



NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279659. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period.

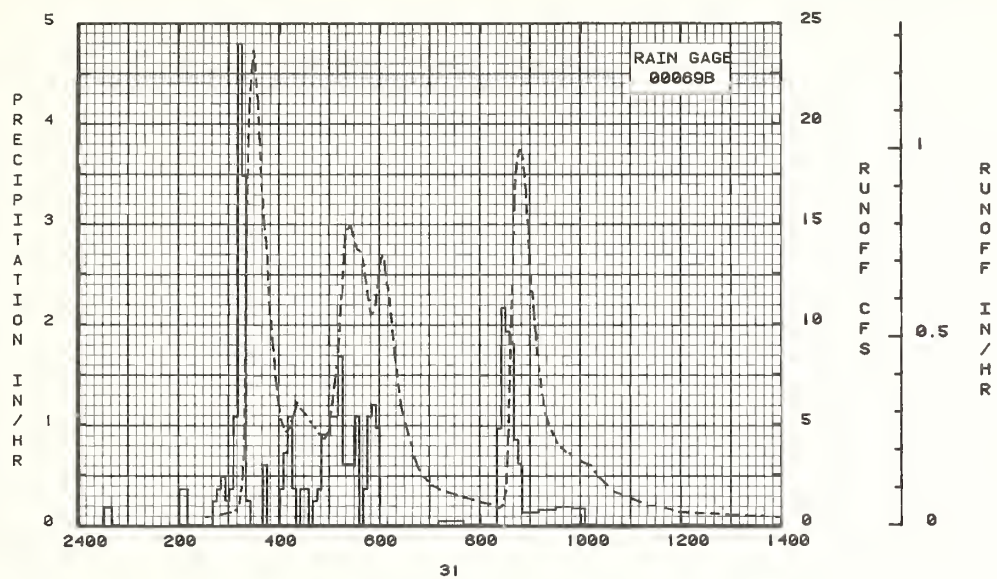
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.

| 1974 SELECTED RUNOFF EVENT            |                      |                    | RIESEL (WACO), TEXAS WATERSHED Y-10 |                |                      |                  |                |                |               |                  |
|---------------------------------------|----------------------|--------------------|-------------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                 |                      |                    | RAINFALL                            |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day                        | Rainfall<br>(inches) | Ennoff<br>(inches) | Date<br>Mo-Day                      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |                      |                    |                                     |                |                      |                  |                |                |               |                  |
| 10-31                                 |                      |                    | 530                                 |                | 0.6000               | 2.02             | 10-31          | 344            | 14.144        | 0.4609           |
|                                       |                      |                    | 535                                 |                | 1.0800               | 2.11             |                | 346            | 12.592        | 0.4859           |
|                                       |                      |                    | 540                                 |                | 0.0                  | 2.11             |                | 348            | 10.533        | 0.5052           |
|                                       |                      |                    | 545                                 |                | 0.3600               | 2.14             |                | 350            | 10.110        | 0.5245           |
|                                       |                      |                    | 550                                 |                | 1.0800               | 2.23             |                | 352            | 9.039         | 0.5405           |
|                                       |                      |                    | 555                                 |                | 1.2001               | 2.33             |                | 354            | 8.116         | 0.5566           |
|                                       |                      |                    | 600                                 |                | 0.9600               | 2.41             |                | 356            | 7.106         | 0.5692           |
|                                       |                      |                    | 710                                 |                | 0.0                  | 2.41             |                | 358            | 6.358         | 0.5819           |
|                                       |                      |                    | 740                                 |                | 0.0400               | 2.43             |                | 400            | 5.640         | 0.5931           |
|                                       |                      |                    | 820                                 |                | 0.0                  | 2.43             |                | 402            | 5.216         | 0.6022           |
|                                       |                      |                    | 825                                 |                | 0.9600               | 2.51             |                | 405            | 4.869         | 0.6158           |
|                                       |                      |                    | 830                                 |                | 2.1601               | 2.69             |                | 408            | 4.656         | 0.6287           |
|                                       |                      |                    | 835                                 |                | 1.9200               | 2.85             |                | 412            | 4.826         | 0.6455           |
|                                       |                      |                    | 840                                 |                | 1.7999               | 3.00             |                | 417            | 5.483         | 0.6680           |
|                                       |                      |                    | 845                                 |                | 0.8399               | 3.07             |                | 421            | 6.123         | 0.6886           |
|                                       |                      |                    | 850                                 |                | 0.6000               | 3.12             |                | 427            | 5.686         | 0.7206           |
|                                       |                      |                    | 910                                 |                | 0.1200               | 3.16             |                | 432            | 5.460         | 0.7449           |
|                                       |                      |                    | 930                                 |                | 0.1500               | 3.21             |                | 437            | 5.150         | 0.7681           |
|                                       |                      |                    | 950                                 |                | 0.1800               | 3.27             |                | 442            | 4.826         | 0.7910           |
|                                       |                      |                    | 1005                                |                | 0.1600               | 3.31             |                | 447            | 4.551         | 0.8115           |
|                                       |                      |                    |                                     |                |                      |                  |                | 452            | 4.323         | 0.8309           |
|                                       |                      |                    |                                     |                |                      |                  |                | 454            | 4.323         | 0.8390           |
|                                       |                      |                    |                                     |                |                      |                  |                | 457            | 4.614         | 0.8511           |
|                                       |                      |                    |                                     |                |                      |                  |                | 500            | 5.282         | 0.8645           |
|                                       |                      |                    |                                     |                |                      |                  |                | 503            | 6.099         | 0.8787           |
|                                       |                      |                    |                                     |                |                      |                  |                | 506            | 7.106         | 0.8966           |
|                                       |                      |                    |                                     |                |                      |                  |                | 509            | 8.245         | 0.9174           |
|                                       |                      |                    |                                     |                |                      |                  |                | 511            | 9.309         | 0.9320           |
|                                       |                      |                    |                                     |                |                      |                  |                | 513            | 10.877        | 0.9509           |
|                                       |                      |                    |                                     |                |                      |                  |                | 515            | 11.901        | 0.9723           |
|                                       |                      |                    |                                     |                |                      |                  |                | 517            | 13.484        | 0.9934           |
|                                       |                      |                    |                                     |                |                      |                  |                | 519            | 14.430        | 1.0196           |
|                                       |                      |                    |                                     |                |                      |                  |                | 521            | 14.750        | 1.0439           |
|                                       |                      |                    |                                     |                |                      |                  |                | 523            | 14.879        | 1.0717           |
|                                       |                      |                    |                                     |                |                      |                  |                | 525            | 14.944        | 1.0965           |
|                                       |                      |                    |                                     |                |                      |                  |                | 528            | 14.366        | 1.1362           |
|                                       |                      |                    |                                     |                |                      |                  |                | 532            | 13.734        | 1.1859           |
|                                       |                      |                    |                                     |                |                      |                  |                | 537            | 13.577        | 1.2457           |
|                                       |                      |                    |                                     |                |                      |                  |                | 539            | 13.267        | 1.2708           |
|                                       |                      |                    |                                     |                |                      |                  |                | 542            | 12.410        | 1.3056           |
|                                       |                      |                    |                                     |                |                      |                  |                | 545            | 11.517        | 1.3380           |
|                                       |                      |                    |                                     |                |                      |                  |                | 549            | 10.505        | 1.3770           |
|                                       |                      |                    |                                     |                |                      |                  |                | 552            | 10.590        | 1.4033           |
|                                       |                      |                    |                                     |                |                      |                  |                | 555            | 11.079        | 1.4326           |
|                                       |                      |                    |                                     |                |                      |                  |                | 557            | 11.990        | 1.4543           |
|                                       |                      |                    |                                     |                |                      |                  |                | 559            | 12.683        | 1.4748           |
|                                       |                      |                    |                                     |                |                      |                  |                | 601            | 13.267        | 1.4991           |
|                                       |                      |                    |                                     |                |                      |                  |                | 603            | 13.391        | 1.5214           |
|                                       |                      |                    |                                     |                |                      |                  |                | 605            | 13.143        | 1.5462           |
|                                       |                      |                    |                                     |                |                      |                  |                | 607            | 12.441        | 1.5675           |
|                                       |                      |                    |                                     |                |                      |                  |                | 610            | 11.664        | 1.6002           |
|                                       |                      |                    |                                     |                |                      |                  |                | 613            | 10.420        | 1.6301           |
|                                       |                      |                    |                                     |                |                      |                  |                | 616            | 9.201         | 1.6566           |
|                                       |                      |                    |                                     |                |                      |                  |                | 619            | 8.116         | 1.6801           |
|                                       |                      |                    |                                     |                |                      |                  |                | 622            | 6.959         | 1.6989           |
|                                       |                      |                    |                                     |                |                      |                  |                | 625            | 5.983         | 1.7164           |
|                                       |                      |                    |                                     |                |                      |                  |                | 628            | 5.416         | 1.7319           |
|                                       |                      |                    |                                     |                |                      |                  |                | 631            | 4.955         | 1.7459           |
|                                       |                      |                    |                                     |                |                      |                  |                | 634            | 4.447         | 1.7586           |
|                                       |                      |                    |                                     |                |                      |                  |                | 637            | 4.099         | 1.7693           |
|                                       |                      |                    |                                     |                |                      |                  |                | 642            | 3.286         | 1.7862           |
|                                       |                      |                    |                                     |                |                      |                  |                | 647            | 2.712         | 1.7993           |
|                                       |                      |                    |                                     |                |                      |                  |                | 652            | 2.390         | 1.8105           |
|                                       |                      |                    |                                     |                |                      |                  |                | 657            | 2.179         | 1.8210           |
|                                       |                      |                    |                                     |                |                      |                  |                | 702            | 1.959         | 1.8300           |
|                                       |                      |                    |                                     |                |                      |                  |                | 712            | 1.748         | 1.8466           |
|                                       |                      |                    |                                     |                |                      |                  |                | 722            | 1.589         | 1.8612           |
|                                       |                      |                    |                                     |                |                      |                  |                | 732            | 1.477         | 1.8749           |
|                                       |                      |                    |                                     |                |                      |                  |                | 742            | 1.340         | 1.8876           |
|                                       |                      |                    |                                     |                |                      |                  |                | 752            | 1.222         | 1.8988           |
|                                       |                      |                    |                                     |                |                      |                  |                | 802            | 1.095         | 1.9091           |
|                                       |                      |                    |                                     |                |                      |                  |                | 812            | 1.022         | 1.9186           |
|                                       |                      |                    |                                     |                |                      |                  |                | 822            | 0.823         | 1.9267           |
|                                       |                      |                    |                                     |                |                      |                  |                | 827            | 0.997         | 1.9309           |
|                                       |                      |                    |                                     |                |                      |                  |                | 829            | 1.300         | 1.9328           |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.053319.

| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS |        |           |          | WATERSHED Y-10 |        |        |          |
|---------------------------------------|----------|----------|----------------------|--------|-----------|----------|----------------|--------|--------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL             |        |           |          | RUNOFF         |        |        |          |
| Date                                  | Rainfall | Runoff   | Date                 | Time   | Intensity | Acc.     | Date           | Time   | Rate   | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day               | of Day | (in/hr)   | (inches) | Mo-Day         | of Day | (cfs)  | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                      |        |           |          |                |        |        |          |
|                                       |          |          |                      | 10-31  |           |          |                | 831    | 1.690  | 1.9356   |
|                                       |          |          |                      |        |           |          |                | 832    | 2.557  | 1.9373   |
|                                       |          |          |                      |        |           |          |                | 833    | 3.665  | 1.9399   |
|                                       |          |          |                      |        |           |          |                | 834    | 4.741  | 1.9443   |
|                                       |          |          |                      |        |           |          |                | 835    | 6.788  | 1.9491   |
|                                       |          |          |                      |        |           |          |                | 836    | 8.350  | 1.9554   |
|                                       |          |          |                      |        |           |          |                | 837    | 10.026 | 1.9631   |
|                                       |          |          |                      |        |           |          |                | 838    | 11.931 | 1.9745   |
|                                       |          |          |                      |        |           |          |                | 839    | 13.329 | 1.9850   |
|                                       |          |          |                      |        |           |          |                | 840    | 14.558 | 1.9966   |
|                                       |          |          |                      |        |           |          |                | 841    | 15.991 | 2.0094   |
|                                       |          |          |                      |        |           |          |                | 842    | 17.200 | 2.0266   |
|                                       |          |          |                      |        |           |          |                | 843    | 17.714 | 2.0412   |
|                                       |          |          |                      |        |           |          |                | 844    | 18.059 | 2.0561   |
|                                       |          |          |                      |        |           |          |                | 845    | 18.372 | 2.0751   |
|                                       |          |          |                      |        |           |          |                | 847    | 18.686 | 2.1059   |
|                                       |          |          |                      |        |           |          |                | 849    | 18.686 | 2.1410   |
|                                       |          |          |                      |        |           |          |                | 851    | 18.198 | 2.1717   |
|                                       |          |          |                      |        |           |          |                | 853    | 17.337 | 2.2050   |
|                                       |          |          |                      |        |           |          |                | 855    | 16.290 | 2.2330   |
|                                       |          |          |                      |        |           |          |                | 857    | 14.879 | 2.2622   |
|                                       |          |          |                      |        |           |          |                | 859    | 13.267 | 2.2857   |
|                                       |          |          |                      |        |           |          |                | 901    | 11.990 | 2.3093   |
|                                       |          |          |                      |        |           |          |                | 903    | 11.224 | 2.3287   |
|                                       |          |          |                      |        |           |          |                | 905    | 10.194 | 2.3488   |
|                                       |          |          |                      |        |           |          |                | 907    | 9.174  | 2.3649   |
|                                       |          |          |                      |        |           |          |                | 910    | 7.987  | 2.3881   |
|                                       |          |          |                      |        |           |          |                | 913    | 6.837  | 2.4082   |
|                                       |          |          |                      |        |           |          |                | 916    | 5.937  | 2.4255   |
|                                       |          |          |                      |        |           |          |                | 919    | 5.393  | 2.4408   |
|                                       |          |          |                      |        |           |          |                | 922    | 5.020  | 2.4538   |
|                                       |          |          |                      |        |           |          |                | 927    | 4.488  | 2.4756   |
|                                       |          |          |                      |        |           |          |                | 932    | 4.039  | 2.4943   |
|                                       |          |          |                      |        |           |          |                | 937    | 3.840  | 2.5115   |
|                                       |          |          |                      |        |           |          |                | 942    | 3.607  | 2.5286   |
|                                       |          |          |                      |        |           |          |                | 947    | 3.531  | 2.5442   |
|                                       |          |          |                      |        |           |          |                | 952    | 3.417  | 2.5594   |
|                                       |          |          |                      |        |           |          |                | 1002   | 3.102  | 2.5885   |
|                                       |          |          |                      |        |           |          |                | 1012   | 2.922  | 2.6155   |
|                                       |          |          |                      |        |           |          |                | 1022   | 2.341  | 2.6385   |
|                                       |          |          |                      |        |           |          |                | 1032   | 1.929  | 2.6577   |
|                                       |          |          |                      |        |           |          |                | 1042   | 1.603  | 2.6735   |
|                                       |          |          |                      |        |           |          |                | 1052   | 1.435  | 2.6868   |
|                                       |          |          |                      |        |           |          |                | 1102   | 1.274  | 2.6989   |
|                                       |          |          |                      |        |           |          |                | 1112   | 1.095  | 2.7095   |
|                                       |          |          |                      |        |           |          |                | 1122   | 0.962  | 2.7185   |
|                                       |          |          |                      |        |           |          |                | 1132   | 0.903  | 2.7268   |
|                                       |          |          |                      |        |           |          |                | 1200   | 0.613  | 2.7458   |
|                                       |          |          |                      |        |           |          |                | 1300   | 0.478  | 2.7749   |
|                                       |          |          |                      |        |           |          |                | 1400   | 0.364  | 2.7973   |
|                                       |          |          |                      |        |           |          |                | 1600   | 0.262  | 2.8307   |
|                                       |          |          |                      |        |           |          |                | 1800   | 0.191  | 2.8549   |
|                                       |          |          |                      |        |           |          |                | 2100   | 0.141  | 2.8814   |
|                                       |          |          |                      |        |           |          |                | 2400   | 0.111  | 2.9016   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.053319.





RIESEL (WACO), TEXAS SW-11

LOCATION: Falls County, Texas; 19 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 02 sec. N.; Long. 96 deg. 53 min. 04 sec. W.

AREA: 2.66 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS SW-11                |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 2.07              | 1.05  | 1.61   | 3.52  | 2.23    | 0.45  | 1.14                                      | 7.03  | 8.52    | 6.62  | 4.61     | 1.61  | 40.46  |       |        |       |        |      |
|   | Q | 0.296             | 0.0   | 0.0    | 0.837 | 0.095   | 0.0   | 0.0                                       | 0.0   | 3.114   | 3.798 | 1.614    | 0.003 | 9.756  |       |        |       |        |      |
| STA AV  | P | 1.92              | 2.37  | 2.36   | 3.55  | 3.32    | 3.68  | 2.42                                      | 2.54  | 3.35    | 4.27  | 3.13     | 2.77  | 35.67  |       |        |       |        |      |
|   | Q | 0.363             | 0.296 | 0.543  | 0.353 | 0.155   | 0.869 | 0.063                                     | 0.005 | 0.488   | 0.771 | 0.899    | 0.618 | 5.421  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Date  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 9-17              | 2.273 | 9-17   | 1.496 | 9-17    | 1.872 | 10-31                                     | 3.069 | 10-31   | 3.492 | 10-30    | 3.779 | 10-30  | 3.809 | 10-30  | 3.854 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 10-31             | 6.670 | 6-3    | 2.407 | 6-3     | 2.791 | 10-31                                     | 3.069 | 10-31   | 3.492 | 10-30    | 3.779 | 11-22  | 5.900 | 11-21  | 6.220 |        |      |
|   |   | 1940              |       | 1973   |       | 1973    |       | 1974                                      |       | 1974    |       | 1974     |       | 1940   |       | 1940   |       |        |      |

NOTES: Watershed conditions: 100% winter growing Harding grass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.023-5. Precipitation and runoff records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in station averages. Precipitation data from rain gage 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|--|
| RIESEL (WACO), TEXAS SW-11        |       |       |       |       |       |      |       |       |       |      |       |       |  |
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.36  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.01E | 0.0   |  |
| 3                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.05E | 0.64  | 0.0  | 0.0   | 0.0   |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.29  | 0.0   |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.69  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.17E |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.78  | 0.0   |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.29  | 0.0   | 0.0  | 0.04  | 0.0   |  |
| 9                                 | 0.01E | 0.0   | 0.06E | 0.0   | 0.0   | 0.23 | 0.0   | 0.0   | 0.39  | 0.0  | 0.07  | 0.0   |  |
| 10                                | 0.21  | 0.0   | 0.24  | 0.0   | 0.16  | 0.0  | 0.0   | 0.0   | 0.99  | 0.0  | 0.44  | 0.71  |  |
| 11                                | 0.0   | 0.0   | 0.03E | 1.04  | 0.0   | 0.0  | 0.06E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 12                                | 0.0   | 0.0   | 0.25  | 0.0   | 0.0   | 0.22 | 0.0   | 0.0   | 0.54  | 0.0  | 0.0   | 0.0   |  |
| 13                                | 0.05E | 0.0   | 0.0   | 1.70  | 0.0   | 0.0  | 0.0   | 0.0   | 1.08  | 0.0  | 0.0   | 0.0   |  |
| 14                                | 0.0   | 0.05E | 0.31  | 0.0   | 0.0   | 0.0  | 0.15  | 0.0   | 0.49  | 0.85 | 0.0   | 0.0   |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.08E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.14E | 0.0   | 0.82  | 0.0  | 0.0   | 0.0   |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.19  | 0.0  | 0.0   | 0.0   |  |
| 18                                | 0.41  | 0.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 20                                | 0.0   | 0.0   | 0.43  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 21                                | 0.0   | 0.84  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.12E | 0.0  | 0.0   | 0.0   |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.42  | 0.0   | 0.0  | 0.0   | 1.66  | 0.0   | 0.0  | 0.0   | 0.0   |  |
| 23                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.37  | 0.0   |  |
| 24                                | 0.34  | 0.0   | 0.29  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.09  | 0.15 | 0.28  | 0.29  |  |
| 25                                | 0.43  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.12E | 0.13  | 0.0  | 0.0   | 0.0   |  |
| 26                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.19  | 2.11  | 0.04E | 0.0  | 0.0   | 0.10E |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.14  | 0.0   | 0.0  | 0.0   | 0.07E |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.95  | 0.0   | 0.67 | 0.0   | 0.04E |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.12E | 0.0   | 0.0  | 0.0   | 0.70  | 0.0   | 0.0  | 0.33  | 0.04E |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.24  | 0.0   | 0.0  | 0.0   | 1.01  | 0.0   | 1.51 | 0.0   | 0.08E |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.52  | 0.0   | 0.0   | 3.44 | 0.0   | 0.11E |  |
| TOTAL                             | 2.07  | 1.05  | 1.61  | 3.52  | 2.23  | 0.45 | 1.14  | 7.03  | 8.52  | 6.62 | 4.61  | 1.61  |  |
| STA AV                            | 1.92  | 2.37  | 2.36  | 3.55  | 3.32  | 3.68 | 2.42  | 2.54  | 3.35  | 4.27 | 3.13  | 2.77  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 89. Records began March 1938; discontinued July 1943; reestablished July 1, 1969. Part-year amounts are included in averages. STA AV based on 12 yr record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS SW-11 |        |       |       |        |        |       |       |       |        |        |        |       |
|--|--------|-------|-------|--------|--------|-------|-------|-------|--------|--------|--------|-------|
| Day  | Jan    | Feb   | Mar   | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec   |
| 1  | 0.0    | 0.0   | 0.0   | 0.0    | 0.011  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.002  | 0.0   |
| 2  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0   |
| 3  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0   |
| 4  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0   |
| 5  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 6  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 7  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0   |
| 8  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0   |
| 9  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0   |
| 10   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.020  | 0.0   |
| 11   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0   |
| 12   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 13   | 0.0    | 0.0   | 0.0   | 0.044  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 14   | 0.0    | 0.0   | 0.0   | 0.050  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 15   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 16   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   |
| 17   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.338  | 0.0    | 0.0    | 0.0   |
| 18   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.009  | 0.0    | 0.0    | 0.0   |
| 19   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   |
| 20   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 21   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 22   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 23   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.118  | 0.0   |
| 24   | 0.0 T  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.031  | 0.0   |
| 25   | 0.003  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 26   | 0.027  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 27   | 0.001  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 28   | 0.002  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 29   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 30   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.030  | 0.0    | 0.0   |
| 31   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.394  | 0.0    | 0.0   |
| MEAN   | 0.0011 | 0.0   | 0.0   | 0.0031 | 0.0003 | 0.0   | 0.0   | 0.0   | 0.0116 | 0.0137 | 0.0060 | 0.0   |
| INCHES   | 0.296  | 0.0   | 0.0   | 0.837  | 0.095  | 0.0   | 0.0   | 0.0   | 3.114  | 3.798  | 1.614  | 0.003 |
| STA AV   | 0.363  | 0.296 | 0.543 | 0.353  | 0.155  | 0.069 | 0.063 | 0.005 | 0.488  | 0.771  | 0.899  | 0.618 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.947990. Records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in averages. STA AV based on 12 yr record period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS SW-11                        |          |          |          |        |           |          |        |        |       |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|-------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           | RUNOFF   |        |        |       |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) |
| EVENT OF OCTOBER 31, 1974  |          |          |          |        |           |          |        |        |       |
| RG 000089  |          |          |          |        |           |          |        |        |       |
| 10-31  | 0.0      | 0.011    | 10-31    | 30     | 0.0       | 0.0      | 10-31  | 205    | 0.025 |
|  |          |          |          | 100    | 0.1000    | 0.05     |        | 210    | 0.025 |
|  |          |          |          | 150    | 0.0       | 0.05     |        | 230    | 0.025 |
|  |          |          |          | 200    | 0.1800    | 0.08     |        | 240    | 0.028 |
|  |          |          |          | 235    | 0.0       | 0.08     |        | 250    | 0.035 |
| WATERSHED CONDITIONS:<br>100% winter growing Harding<br>grass, sparse cover. |          |          |          |        |           |          |        |        |       |
|  |          |          |          | 240    | 0.1199    | 0.09     |        | 255    | 0.045 |
|  |          |          |          | 250    | 0.2400    | 0.13     |        | 300    | 0.054 |
|  |          |          |          | 300    | 0.2401    | 0.17     |        | 302    | 0.064 |
|  |          |          |          | 305    | 0.8399    | 0.24     |        | 305    | 0.084 |
|  |          |          |          | 308    | 2.6001    | 0.37     |        | 306    | 0.097 |
|  |          |          |          | 310    | 4.5003    | 0.52     |        | 307    | 0.122 |
|  |          |          |          | 312    | 6.2997    | 0.73     |        | 308    | 0.180 |
|  |          |          |          | 314    | 5.9999    | 0.93     |        | 309    | 0.276 |
|  |          |          |          | 316    | 2.1002    | 1.00     |        | 310    | 0.442 |
|  |          |          |          | 320    | 0.3001    | 1.02     |        | 311    | 0.717 |
|  |          |          |          | 335    | 0.0       | 1.02     |        | 312    | 1.119 |
|  |          |          |          | 340    | 0.3600    | 1.05     |        | 313    | 1.599 |
|  |          |          |          | 400    | 0.0       | 1.05     |        | 314    | 1.806 |
|  |          |          |          | 405    | 0.7200    | 1.11     |        | 315    | 2.202 |
|  |          |          |          | 410    | 2.0400    | 1.28     |        | 316    | 2.547 |
|  |          |          |          | 412    | 3.3000    | 1.39     |        | 318    | 3.052 |
|  |          |          |          | 420    | 0.0750    | 1.40     |        | 320    | 3.511 |
|  |          |          |          | 425    | 0.3600    | 1.43     |        | 322    | 3.753 |
|  |          |          |          | 430    | 0.3600    | 1.46     |        | 323    | 3.778 |
|  |          |          |          | 440    | 0.1800    | 1.49     |        | 325    | 3.655 |
|  |          |          |          | 445    | 0.2401    | 1.51     |        | 329    | 3.340 |
|  |          |          |          | 450    | 0.6000    | 1.56     |        | 332    | 2.959 |
|  |          |          |          | 455    | 0.7200    | 1.62     |        | 335    | 2.661 |
|  |          |          |          | 500    | 0.6000    | 1.67     |        | 338    | 2.307 |
|  |          |          |          | 505    | 0.9600    | 1.75     |        | 341    | 2.070 |

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.

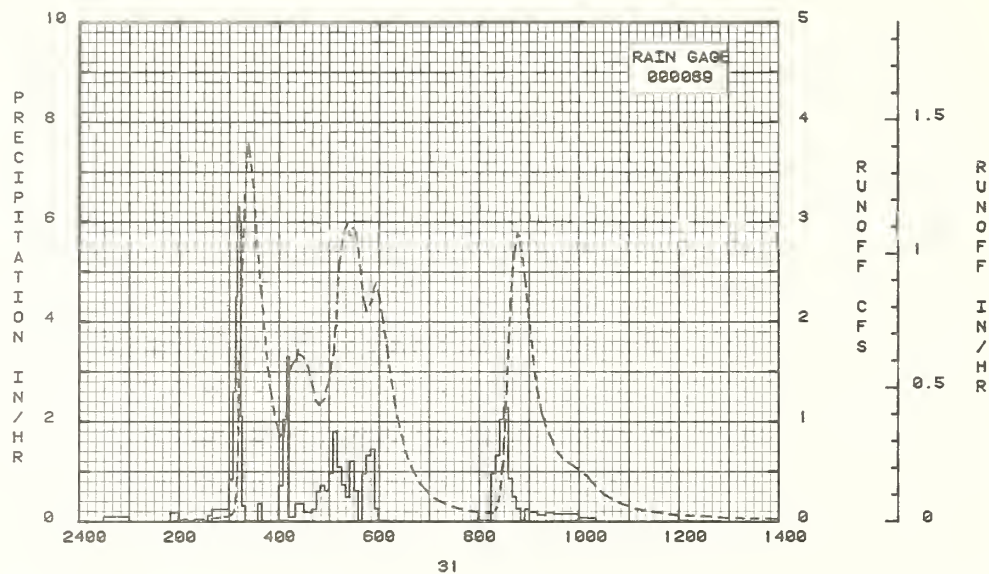
| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS SW-11 |        |           |          |        |        |       |          |
|---------------------------------------|----------|----------|----------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                   |        |           | RUNOFF   |        |        |       |          |
| Date                                  | Rainfall | Runoff   | Date                       | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day                     | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                            |        |           |          |        |        |       |          |
| 10-31                                 |          |          | 510                        |        | 1.7999    | 1.90     | 10-31  | 344    | 1.775 | 0.5841   |
|                                       |          |          | 515                        |        | 1.0800    | 1.99     |        | 347    | 1.516 | 0.6153   |
|                                       |          |          | 520                        |        | 0.7202    | 2.05     |        | 350    | 1.300 | 0.6419   |
|                                       |          |          | 525                        |        | 0.4799    | 2.09     |        | 355    | 1.061 | 0.6780   |
|                                       |          |          | 530                        |        | 1.2001    | 2.19     |        | 400    | 0.886 | 0.7092   |
|                                       |          |          | 535                        |        | 0.5999    | 2.24     |        | 401    | 0.842 | 0.7142   |
|                                       |          |          | 540                        |        | 0.0       | 2.24     |        | 402    | 0.865 | 0.7192   |
|                                       |          |          | 545                        |        | 0.9600    | 2.32     |        | 406    | 0.845 | 0.7404   |
|                                       |          |          | 550                        |        | 1.3200    | 2.43     |        | 408    | 0.984 | 0.7524   |
|                                       |          |          | 555                        |        | 1.4401    | 2.55     |        | 410    | 1.136 | 0.7647   |
|                                       |          |          | 600                        |        | 0.2399    | 2.57     |        | 412    | 1.447 | 0.7817   |
|                                       |          |          | 815                        |        | 0.0       | 2.57     |        | 415    | 1.557 | 0.8101   |
|                                       |          |          | 820                        |        | 0.9600    | 2.65     |        | 420    | 1.624 | 0.8587   |
|                                       |          |          | 825                        |        | 1.3200    | 2.76     |        | 421    | 1.599 | 0.8681   |
|                                       |          |          | 830                        |        | 2.0400    | 2.93     |        | 423    | 1.723 | 0.8899   |
|                                       |          |          | 835                        |        | 2.2800    | 3.12     |        | 425    | 1.666 | 0.9096   |
|                                       |          |          | 840                        |        | 0.8401    | 3.19     |        | 430    | 1.632 | 0.9625   |
|                                       |          |          | 845                        |        | 0.4799    | 3.23     |        | 435    | 1.536 | 1.0109   |
|                                       |          |          | 850                        |        | 0.2401    | 3.25     |        | 440    | 1.357 | 1.0551   |
|                                       |          |          | 855                        |        | 0.0       | 3.25     |        | 445    | 1.190 | 1.0960   |
|                                       |          |          | 900                        |        | 0.2401    | 3.27     |        | 448    | 1.161 | 1.1165   |
|                                       |          |          | 910                        |        | 0.1800    | 3.30     |        | 450    | 1.190 | 1.1319   |
|                                       |          |          | 920                        |        | 0.1199    | 3.32     |        | 455    | 1.230 | 1.1689   |
|                                       |          |          | 930                        |        | 0.1800    | 3.35     |        | 457    | 1.338 | 1.1857   |
|                                       |          |          | 1000                       |        | 0.1400    | 3.42     |        | 500    | 1.412 | 1.2118   |
|                                       |          |          | 1020                       |        | 0.0600    | 3.44     |        | 503    | 1.594 | 1.2380   |
|                                       |          |          |                            |        |           |          |        | 506    | 1.705 | 1.2693   |
|                                       |          |          |                            |        |           |          |        | 508    | 1.957 | 1.2933   |
|                                       |          |          |                            |        |           |          |        | 510    | 2.287 | 1.3180   |
|                                       |          |          |                            |        |           |          |        | 512    | 2.579 | 1.3499   |
|                                       |          |          |                            |        |           |          |        | 515    | 2.738 | 1.4002   |
|                                       |          |          |                            |        |           |          |        | 519    | 2.930 | 1.4704   |
|                                       |          |          |                            |        |           |          |        | 522    | 2.976 | 1.5220   |
|                                       |          |          |                            |        |           |          |        | 525    | 2.861 | 1.5772   |
|                                       |          |          |                            |        |           |          |        | 526    | 2.861 | 1.5939   |
|                                       |          |          |                            |        |           |          |        | 528    | 2.936 | 1.6319   |
|                                       |          |          |                            |        |           |          |        | 530    | 2.913 | 1.6702   |
|                                       |          |          |                            |        |           |          |        | 532    | 2.890 | 1.7040   |
|                                       |          |          |                            |        |           |          |        | 535    | 2.710 | 1.7570   |
|                                       |          |          |                            |        |           |          |        | 538    | 2.473 | 1.8061   |
|                                       |          |          |                            |        |           |          |        | 541    | 2.207 | 1.8470   |
|                                       |          |          |                            |        |           |          |        | 545    | 2.099 | 1.9034   |
|                                       |          |          |                            |        |           |          |        | 550    | 2.187 | 1.9690   |
|                                       |          |          |                            |        |           |          |        | 552    | 2.222 | 1.9947   |
|                                       |          |          |                            |        |           |          |        | 554    | 2.338 | 2.0246   |
|                                       |          |          |                            |        |           |          |        | 556    | 2.384 | 2.0521   |
|                                       |          |          |                            |        |           |          |        | 600    | 2.257 | 2.1129   |
|                                       |          |          |                            |        |           |          |        | 605    | 1.985 | 2.1778   |
|                                       |          |          |                            |        |           |          |        | 610    | 1.709 | 2.2342   |
|                                       |          |          |                            |        |           |          |        | 615    | 1.396 | 2.2840   |
|                                       |          |          |                            |        |           |          |        | 620    | 1.133 | 2.3227   |
|                                       |          |          |                            |        |           |          |        | 625    | 0.942 | 2.3544   |
|                                       |          |          |                            |        |           |          |        | 630    | 0.772 | 2.3819   |
|                                       |          |          |                            |        |           |          |        | 635    | 0.617 | 2.4031   |
|                                       |          |          |                            |        |           |          |        | 640    | 0.519 | 2.4205   |
|                                       |          |          |                            |        |           |          |        | 645    | 0.446 | 2.4359   |
|                                       |          |          |                            |        |           |          |        | 650    | 0.368 | 2.4484   |
|                                       |          |          |                            |        |           |          |        | 700    | 0.284 | 2.4688   |
|                                       |          |          |                            |        |           |          |        | 710    | 0.215 | 2.4840   |
|                                       |          |          |                            |        |           |          |        | 720    | 0.174 | 2.4962   |
|                                       |          |          |                            |        |           |          |        | 730    | 0.143 | 2.5062   |
|                                       |          |          |                            |        |           |          |        | 740    | 0.119 | 2.5142   |
|                                       |          |          |                            |        |           |          |        | 750    | 0.103 | 2.5211   |
|                                       |          |          |                            |        |           |          |        | 800    | 0.091 | 2.5272   |
|                                       |          |          |                            |        |           |          |        | 815    | 0.080 | 2.5352   |
|                                       |          |          |                            |        |           |          |        | 817    | 0.083 | 2.5361   |
|                                       |          |          |                            |        |           |          |        | 820    | 0.118 | 2.5380   |
|                                       |          |          |                            |        |           |          |        | 822    | 0.144 | 2.5395   |
|                                       |          |          |                            |        |           |          |        | 824    | 0.204 | 2.5418   |
|                                       |          |          |                            |        |           |          |        | 825    | 0.255 | 2.5432   |
|                                       |          |          |                            |        |           |          |        | 826    | 0.318 | 2.5448   |
|                                       |          |          |                            |        |           |          |        | 827    | 0.399 | 2.5474   |
|                                       |          |          |                            |        |           |          |        | 828    | 0.523 | 2.5501   |
|                                       |          |          |                            |        |           |          |        | 829    | 0.601 | 2.5534   |
|                                       |          |          |                            |        |           |          |        | 830    | 0.724 | 2.5582   |

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.

| 1974      SELECTED RUNOFF EVENT       |          |          | RIESEL (WACO), TEXAS SW-11 |        |           |          |        |        |       |          |
|---------------------------------------|----------|----------|----------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                   |        |           | RUNOFF   |        |        |       |          |
| Date                                  | Rainfall | Runoff   | Date                       | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day                     | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                            |        |           |          |        |        |       |          |
|                                       |          |          |                            | 10-31  |           |          |        | 831    | 0.842 | 2.5628   |
|                                       |          |          |                            |        |           |          |        | 832    | 1.020 | 2.5682   |
|                                       |          |          |                            |        |           |          |        | 833    | 1.197 | 2.5747   |
|                                       |          |          |                            |        |           |          |        | 834    | 1.400 | 2.5841   |
|                                       |          |          |                            |        |           |          |        | 835    | 1.636 | 2.5930   |
|                                       |          |          |                            |        |           |          |        | 836    | 1.806 | 2.6030   |
|                                       |          |          |                            |        |           |          |        | 837    | 2.042 | 2.6142   |
|                                       |          |          |                            |        |           |          |        | 838    | 2.232 | 2.6297   |
|                                       |          |          |                            |        |           |          |        | 840    | 2.468 | 2.6571   |
|                                       |          |          |                            |        |           |          |        | 842    | 2.661 | 2.6907   |
|                                       |          |          |                            |        |           |          |        | 844    | 2.771 | 2.7224   |
|                                       |          |          |                            |        |           |          |        | 846    | 2.878 | 2.7594   |
|                                       |          |          |                            |        |           |          |        | 848    | 2.850 | 2.7928   |
|                                       |          |          |                            |        |           |          |        | 850    | 2.777 | 2.8296   |
|                                       |          |          |                            |        |           |          |        | 855    | 2.421 | 2.9091   |
|                                       |          |          |                            |        |           |          |        | 900    | 2.032 | 2.9805   |
|                                       |          |          |                            |        |           |          |        | 905    | 1.636 | 3.0366   |
|                                       |          |          |                            |        |           |          |        | 910    | 1.308 | 3.0816   |
|                                       |          |          |                            |        |           |          |        | 915    | 1.091 | 3.1200   |
|                                       |          |          |                            |        |           |          |        | 920    | 0.955 | 3.1513   |
|                                       |          |          |                            |        |           |          |        | 925    | 0.856 | 3.1790   |
|                                       |          |          |                            |        |           |          |        | 930    | 0.764 | 3.2049   |
|                                       |          |          |                            |        |           |          |        | 935    | 0.684 | 3.2271   |
|                                       |          |          |                            |        |           |          |        | 940    | 0.625 | 3.2471   |
|                                       |          |          |                            |        |           |          |        | 950    | 0.566 | 3.2844   |
|                                       |          |          |                            |        |           |          |        | 1000   | 0.514 | 3.3182   |
|                                       |          |          |                            |        |           |          |        | 1010   | 0.446 | 3.3476   |
|                                       |          |          |                            |        |           |          |        | 1020   | 0.348 | 3.3724   |
|                                       |          |          |                            |        |           |          |        | 1030   | 0.274 | 3.3919   |
|                                       |          |          |                            |        |           |          |        | 1040   | 0.217 | 3.4069   |
|                                       |          |          |                            |        |           |          |        | 1050   | 0.178 | 3.4193   |
|                                       |          |          |                            |        |           |          |        | 1100   | 0.147 | 3.4295   |
|                                       |          |          |                            |        |           |          |        | 1110   | 0.123 | 3.4377   |
|                                       |          |          |                            |        |           |          |        | 1120   | 0.105 | 3.4449   |
|                                       |          |          |                            |        |           |          |        | 1140   | 0.077 | 3.4561   |
|                                       |          |          |                            |        |           |          |        | 1200   | 0.060 | 3.4647   |
|                                       |          |          |                            |        |           |          |        | 1230   | 0.045 | 3.4745   |
|                                       |          |          |                            |        |           |          |        | 1300   | 0.032 | 3.4817   |
|                                       |          |          |                            |        |           |          |        | 1400   | 0.021 | 3.4916   |
|                                       |          |          |                            |        |           |          |        | 1500   | 0.013 | 3.4979   |
|                                       |          |          |                            |        |           |          |        | 1600   | 0.009 | 3.5020   |
|                                       |          |          |                            |        |           |          |        | 1700   | 0.006 | 3.5048   |
|                                       |          |          |                            |        |           |          |        | 1800   | 0.005 | 3.5068   |
|                                       |          |          |                            |        |           |          |        | 2400   | 0.003 | 3.5158   |

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.





RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 48 sec. N.; Long. 96 deg. 52 min. 59 sec. W.

AREA: 2.97 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |       |                                |                     |                      |   |             |             |             |             |       |       |       |                    | RIESEL (WACO), TEXAS WATERSHED SW-12 |                     |
|---|-------|--------------------------------|---------------------|----------------------|---|-------------|-------------|-------------|-------------|-------|-------|-------|--------------------|--------------------------------------|---------------------|
|   |       | Jan                            | Feb                 | Mar                  | Apr                                       | May         | Jun         | Jul         | Aug         | Sep   | Oct   | Nov   | Dec                | Annual                               |                     |
| 1974  | P     | 2.17                           | 0.99                | 1.62                 | 3.95                                      | 2.00        | 0.51        | 1.01        | 6.49        | 8.44  | 7.20  | 4.23  | 1.64               | 40.25                                |                     |
|   | Q     | 0.475                          | 0.096               | 0.0                  | 0.906                                     | 0.009       | 0.0         | 0.0         | 0.0         | 3.074 | 3.666 | 2.328 | 0.572              | 11.126                               |                     |
| STA AV  | P     | 2.12                           | 2.57                | 2.26                 | 3.91                                      | 3.73        | 3.54        | 1.81        | 2.25        | 2.91  | 3.20  | 2.86  | 2.35               | 33.52                                |                     |
|   | Q     | 0.474                          | 0.574               | 0.643                | 0.701                                     | 0.536       | 0.486       | 0.081       | 0.016       | 0.128 | 0.151 | 0.271 | 0.396              | 4.458                                |                     |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |       |                                |                     |                      |   |             |             |             |             |       |       |       |                    |                                      |                     |
|   |       | Maximum Discharge<br>Date Rate | 1 Hour<br>Date Vol. | 2 Hours<br>Date Vol. | Maximum Volume for Selected Time Interval |             |             |             |             |       |       |       | 1 Day<br>Date Vol. | 2 Days<br>Date Vol.                  | 8 Days<br>Date Vol. |
| 1974  |       | 10-31 2.912                    | 9-17 1.316          | 9-17 1.654           | 10-31 2.989                               | 10-31 3.333 | 10-30 3.642 | 10-30 3.675 | 10-30 3.982 |       |       |       |                    |                                      |                     |
| MAXIMUMS FOR PERIOD OF RECORD   |       |                                |                     |                      |   |             |             |             |             |       |       |       |                    |                                      |                     |
| 6-3   | 4.403 | 3-29                           | 3.070               | 3-29                 | 3.830                                     | 3-29        | 4.620       | 3-29        | 4.800       | 3-29  | 5.340 | 3-29  | 5.390              | 4-19                                 | 8.530               |
| 1973  |       | 1965                           |                     | 1965                 |   | 1965        |             | 1965        |             | 1965  |       | 1965  |                    | 1957                                 |                     |

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |       |      |       |  | RIESEL (WACO), TEXAS WATERSHED SW-12 |       |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|--|--------------------------------------|-------|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct   | Nov  | Dec   |  |                                      |       |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.17  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |       |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.03E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |       |
| 3                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.01E | 0.0  | 0.0   | 0.07E | 0.62  | 0.0   | 0.0  | 0.0   |  |                                      |       |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.37  |  |                                      |       |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.65  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.15E |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.78  |  |                                      | 0.0   |
| 8                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.30  | 0.0   | 0.0   | 0.0  | 0.02E |  |                                      | 0.0   |
| 9                                 | 0.02E | 0.0   | 0.04E | 0.0   | 0.0   | 0.27 | 0.0   | 0.0   | 0.33  | 0.0   | 0.08 | 0.0   |  |                                      | 0.0   |
| 10                                | 0.20  | 0.0   | 0.27  | 0.0   | 0.14  | 0.0  | 0.0   | 0.0   | 1.00  | 0.0   | 0.42 | 0.70  |  |                                      |       |
| 11                                | 0.0   | 0.0   | 0.12E | 1.00  | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 12                                | 0.0   | 0.0   | 0.12E | 0.0   | 0.0   | 0.24 | 0.0   | 0.0   | 0.51  | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 13                                | 0.05E | 0.0   | 0.0   | 2.20  | 0.0   | 0.0  | 0.0   | 0.0   | 1.03  | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 14                                | 0.0   | 0.04E | 0.29  | 0.0   | 0.0   | 0.0  | 0.20  | 0.0   | 0.53  | 0.81  | 0.0  | 0.0   |  |                                      | 0.0   |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.09E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.03E | 0.0   | 1.08  | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 2.80  | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 18                                | 0.53  | 0.11E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 20                                | 0.0   | 0.0   | 0.52  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 21                                | 0.0   | 0.84  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.13E | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 22                                | 0.0   | 0.0   | 0.0   | 0.45  | 0.0   | 0.0  | 0.0   | 0.86  | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 23                                | 0.32  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 2.00  |  |                                      | 0.0   |
| 24                                | 0.26  | 0.0   | 0.26  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.08  | 0.14E | 0.23 | 0.29  |  |                                      | 0.0   |
| 25                                | 0.43  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.32  | 0.0   | 0.0  | 0.0   |  |                                      | 0.0   |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.15E | 2.24  | 0.01E | 0.0   | 0.0  | 0.15E |  |                                      | 0.06E |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.12  | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      | 0.06E |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.95  | 0.0   | 1.01  | 0.0  | 0.06E |  |                                      | 0.06E |
| 29                                | 0.0   | 0.0   | 0.0   | 0.12E | 0.0   | 0.0  | 0.0   | 0.77  | 0.0   | 0.0   | 0.33 | 0.06E |  |                                      | 0.06E |
| 30                                | 0.0   | 0.0   | 0.0   | 0.18  | 0.0   | 0.0  | 0.0   | 1.18  | 0.0   | 1.76  | 0.0  | 0.05E |  |                                      | 0.05E |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.47  | 0.0   |       | 3.48  |      | 0.12E |  |                                      |       |
| TOTAL                             | 2.17  | 0.99  | 1.62  | 3.95  | 2.00  | 0.51 | 1.01  | 6.49  | 8.44  | 7.20  | 4.23 | 1.64  |  |                                      |       |
| STA AV                            | 2.12  | 2.57  | 2.26  | 3.91  | 3.73  | 3.54 | 1.81  | 2.25  | 2.91  | 3.20  | 2.86 | 2.35  |  |                                      |       |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-12 |        |        |       |        |       |       |       |       |        |        |        |        |
|--|--------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May   | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.001 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.002  | 0.003  |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0 T  |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.037  | 0.0    |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.002  | 0.0    |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.034  | 0.041  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.004  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.002  |
| 13   | 0.0    | 0.0    | 0.0   | 0.090  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  |
| 14   | 0.0    | 0.0    | 0.0   | 0.020  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.367  | 0.0    | 0.0    | 0.0    |
| 18   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.005  | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.011  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.001  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.151  | 0.0    |
| 24   | 0.005  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.040  | 0.002  |
| 25   | 0.025  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.091  |
| 26   | 0.028  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 29   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 30   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.037  | 0.002  | 0.003  |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.410  | 0.007  | 0.007  |
| MEAN   | 0.0019 | 0.0004 | 0.0   | 0.0037 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0125 | 0.0144 | 0.0095 | 0.0022 |
| INCHES   | 0.475  | 0.096  | 0.0   | 0.906  | 0.009 | 0.0   | 0.0   | 0.0   | 3.074  | 3.666  | 2.328  | 0.572  |
| STA AV   | 0.474  | 0.574  | 0.643 | 0.701  | 0.536 | 0.486 | 0.081 | 0.016 | 0.128  | 0.151  | 0.271  | 0.396  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.014025. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 32 yr period.

| 1974                      |          |          | SELECTED HUNOFF EVENT |        |           |          | RIESEL (WACO), TEXAS |        |       | WATERSHED SW-12 |  |  |
|---------------------------|----------|----------|-----------------------|--------|-----------|----------|----------------------|--------|-------|-----------------|--|--|
| ANTECEDENT CONDITIONS     |          |          | HAINFALL              |        |           |          | RUNOFF               |        |       |                 |  |  |
| Date                      | Hainfall | Runoff   | Date                  | Time   | Intensity | Acc.     | Date                 | Time   | Rate  | Acc.            |  |  |
| Mo-Day                    | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches) | Mo-Day               | of Day | (cfs) | (inches)        |  |  |
| EVENT OF OCTOBER 31, 1974 |          |          |                       |        |           |          |                      |        |       |                 |  |  |
| RG 000070                 |          |          | RG 000070             |        |           |          |                      |        |       |                 |  |  |
| 10-31                     | 0.0      | 0.005    | 10-31                 | 30     | 0.0       | 0.0      | 10-31                | 202    | 0.006 | 0.0             |  |  |
|                           |          |          |                       | 40     | 0.1200    | 0.02     |                      | 207    | 0.013 | 0.0003          |  |  |
|                           |          |          |                       | 150    | 0.0       | 0.02     |                      | 212    | 0.016 | 0.0007          |  |  |
|                           |          |          |                       | 200    | 0.3600    | 0.08     |                      | 222    | 0.020 | 0.0017          |  |  |
|                           |          |          |                       | 240    | 0.0       | 0.08     |                      | 242    | 0.021 | 0.0040          |  |  |
| WATERSHED CONDITIONS:     |          |          |                       |        |           |          |                      |        |       |                 |  |  |
| 100% native grass meadow, |          |          |                       |        |           |          |                      |        |       |                 |  |  |
| 12 to 14 inches, dormant. |          |          |                       |        |           |          |                      |        |       |                 |  |  |
|                           |          |          |                       | 245    | 0.3600    | 0.11     |                      | 249    | 0.026 | 0.0049          |  |  |
|                           |          |          |                       | 250    | 0.6000    | 0.16     |                      | 252    | 0.041 | 0.0054          |  |  |
|                           |          |          |                       | 255    | 0.6000    | 0.21     |                      | 255    | 0.061 | 0.0063          |  |  |
|                           |          |          |                       | 300    | 0.2401    | 0.23     |                      | 258    | 0.082 | 0.0075          |  |  |
|                           |          |          |                       | 305    | 0.9600    | 0.31     |                      | 302    | 0.111 | 0.0096          |  |  |
|                           |          |          |                       | 310    | 5.1599    | 0.74     |                      | 304    | 0.129 | 0.0110          |  |  |
|                           |          |          |                       | 315    | 4.0800    | 1.08     |                      | 306    | 0.178 | 0.0126          |  |  |
|                           |          |          |                       | 320    | 0.7200    | 1.14     |                      | 308    | 0.243 | 0.0151          |  |  |
|                           |          |          |                       | 330    | 0.0       | 1.14     |                      | 309    | 0.327 | 0.0166          |  |  |
|                           |          |          |                       | 335    | 0.2401    | 1.16     |                      | 310    | 0.530 | 0.0188          |  |  |
|                           |          |          |                       | 340    | 0.3600    | 1.19     |                      | 311    | 0.856 | 0.0224          |  |  |
|                           |          |          |                       | 400    | 0.0       | 1.19     |                      | 312    | 1.447 | 0.0299          |  |  |
|                           |          |          |                       | 410    | 1.2600    | 1.40     |                      | 313    | 1.705 | 0.0382          |  |  |
|                           |          |          |                       | 420    | 0.1800    | 1.43     |                      | 314    | 1.976 | 0.0478          |  |  |
|                           |          |          |                       | 430    | 0.3600    | 1.49     |                      | 315    | 2.468 | 0.0623          |  |  |
|                           |          |          |                       | 440    | 0.0       | 1.49     |                      | 316    | 3.980 | 0.0791          |  |  |
|                           |          |          |                       | 450    | 0.6000    | 1.59     |                      | 317    | 5.824 | 0.1047          |  |  |
|                           |          |          |                       | 500    | 1.0800    | 1.77     |                      | 318    | 6.621 | 0.1371          |  |  |
|                           |          |          |                       | 510    | 1.2600    | 1.98     |                      | 319    | 7.633 | 0.1836          |  |  |
|                           |          |          |                       | 520    | 0.5999    | 2.08     |                      | 320    | 8.113 | 0.2247          |  |  |
|                           |          |          |                       | 525    | 0.8401    | 2.15     |                      | 322    | 8.516 | 0.3114          |  |  |
|                           |          |          |                       | 530    | 0.9600    | 2.23     |                      | 324    | 8.421 | 0.4109          |  |  |
|                           |          |          |                       | 535    | 0.1199    | 2.24     |                      | 326    | 7.557 | 0.4992          |  |  |
|                           |          |          |                       | 540    | 0.4799    | 2.28     |                      | 327    | 6.857 | 0.5412          |  |  |
|                           |          |          |                       | 545    | 0.9600    | 2.36     |                      | 328    | 6.031 | 0.5748          |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

| 1974                                  | SELECTED RUNOFF EVENT |          |          |        |           |          | BIESEL (WACO), TEXAS WATERSHED SW-12 |        |       |          |  |
|---------------------------------------|-----------------------|----------|----------|--------|-----------|----------|--------------------------------------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                 |                       |          | RAINFALL |        |           |          | RUNOFF                               |        |       |          |  |
| Date                                  | Rainfall              | Runoff   | Date     | Time   | Intensity | Acc.     | Date                                 | Time   | Rate  | Acc.     |  |
| Mo-Day                                | (inches)              | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day                               | of Day | (cfs) | (inches) |  |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |                       |          |          |        |           |          |                                      |        |       |          |  |
| 10-31                                 |                       |          | 550      |        | 1.2001    | 2.46     | 10-31                                | 329    | 5.340 | 0.6045   |  |
|                                       |                       |          | 555      |        | 0.7200    | 2.52     |                                      | 330    | 4.853 | 0.6377   |  |
|                                       |                       |          | 600      |        | 0.1199    | 2.53     |                                      | 331    | 4.215 | 0.6614   |  |
|                                       |                       |          | 700      |        | 0.0       | 2.53     |                                      | 332    | 3.672 | 0.6820   |  |
|                                       |                       |          | 720      |        | 0.1200    | 2.57     |                                      | 333    | 3.058 | 0.6995   |  |
|                                       |                       |          | 815      |        | 0.0       | 2.57     |                                      | 334    | 2.771 | 0.7185   |  |
|                                       |                       |          | 820      |        | 0.9600    | 2.65     |                                      | 335    | 2.590 | 0.7325   |  |
|                                       |                       |          | 825      |        | 2.1599    | 2.83     |                                      | 337    | 2.359 | 0.7583   |  |
|                                       |                       |          | 830      |        | 2.1601    | 3.01     |                                      | 339    | 1.976 | 0.7838   |  |
|                                       |                       |          | 835      |        | 2.0400    | 3.18     |                                      | 341    | 1.662 | 0.8028   |  |
|                                       |                       |          | 840      |        | 0.4799    | 3.22     |                                      | 343    | 1.388 | 0.8207   |  |
|                                       |                       |          | 900      |        | 0.2700    | 3.31     |                                      | 345    | 1.197 | 0.8358   |  |
|                                       |                       |          | 920      |        | 0.2100    | 3.38     |                                      | 347    | 1.057 | 0.8476   |  |
|                                       |                       |          | 940      |        | 0.1200    | 3.42     |                                      | 349    | 0.930 | 0.8593   |  |
|                                       |                       |          | 1000     |        | 0.1800    | 3.48     |                                      | 352    | 0.809 | 0.8729   |  |
|                                       |                       |          |          |        |           |          |                                      | 357    | 0.659 | 0.8939   |  |
|                                       |                       |          |          |        |           |          |                                      | 400    | 0.568 | 0.9043   |  |
|                                       |                       |          |          |        |           |          |                                      | 403    | 0.512 | 0.9128   |  |
|                                       |                       |          |          |        |           |          |                                      | 405    | 0.575 | 0.9192   |  |
|                                       |                       |          |          |        |           |          |                                      | 407    | 0.613 | 0.9254   |  |
|                                       |                       |          |          |        |           |          |                                      | 408    | 0.634 | 0.9294   |  |
|                                       |                       |          |          |        |           |          |                                      | 409    | 0.689 | 0.9329   |  |
|                                       |                       |          |          |        |           |          |                                      | 410    | 0.761 | 0.9367   |  |
|                                       |                       |          |          |        |           |          |                                      | 411    | 0.845 | 0.9409   |  |
|                                       |                       |          |          |        |           |          |                                      | 412    | 0.908 | 0.9466   |  |
|                                       |                       |          |          |        |           |          |                                      | 413    | 1.007 | 0.9516   |  |
|                                       |                       |          |          |        |           |          |                                      | 414    | 1.119 | 0.9571   |  |
|                                       |                       |          |          |        |           |          |                                      | 417    | 1.281 | 0.9775   |  |
|                                       |                       |          |          |        |           |          |                                      | 422    | 1.427 | 1.0146   |  |
|                                       |                       |          |          |        |           |          |                                      | 425    | 1.467 | 1.0391   |  |
|                                       |                       |          |          |        |           |          |                                      | 427    | 1.483 | 1.0564   |  |
|                                       |                       |          |          |        |           |          |                                      | 429    | 1.412 | 1.0715   |  |
|                                       |                       |          |          |        |           |          |                                      | 432    | 1.289 | 1.0944   |  |
|                                       |                       |          |          |        |           |          |                                      | 437    | 1.126 | 1.1275   |  |
|                                       |                       |          |          |        |           |          |                                      | 442    | 0.945 | 1.1572   |  |
|                                       |                       |          |          |        |           |          |                                      | 444    | 0.883 | 1.1667   |  |
|                                       |                       |          |          |        |           |          |                                      | 447    | 0.837 | 1.1813   |  |
|                                       |                       |          |          |        |           |          |                                      | 449    | 0.818 | 1.1910   |  |
|                                       |                       |          |          |        |           |          |                                      | 452    | 0.911 | 1.2046   |  |
|                                       |                       |          |          |        |           |          |                                      | 455    | 1.024 | 1.2210   |  |
|                                       |                       |          |          |        |           |          |                                      | 458    | 1.143 | 1.2393   |  |
|                                       |                       |          |          |        |           |          |                                      | 500    | 1.315 | 1.2538   |  |
|                                       |                       |          |          |        |           |          |                                      | 502    | 1.435 | 1.2681   |  |
|                                       |                       |          |          |        |           |          |                                      | 504    | 1.675 | 1.2864   |  |
|                                       |                       |          |          |        |           |          |                                      | 506    | 1.870 | 1.3049   |  |
|                                       |                       |          |          |        |           |          |                                      | 508    | 2.018 | 1.3277   |  |
|                                       |                       |          |          |        |           |          |                                      | 510    | 2.348 | 1.3505   |  |
|                                       |                       |          |          |        |           |          |                                      | 512    | 2.574 | 1.3794   |  |
|                                       |                       |          |          |        |           |          |                                      | 514    | 2.827 | 1.4075   |  |
|                                       |                       |          |          |        |           |          |                                      | 515    | 2.913 | 1.4262   |  |
|                                       |                       |          |          |        |           |          |                                      | 519    | 2.924 | 1.4910   |  |
|                                       |                       |          |          |        |           |          |                                      | 522    | 2.896 | 1.5365   |  |
|                                       |                       |          |          |        |           |          |                                      | 524    | 2.788 | 1.5699   |  |
|                                       |                       |          |          |        |           |          |                                      | 526    | 2.639 | 1.5982   |  |
|                                       |                       |          |          |        |           |          |                                      | 528    | 2.521 | 1.6285   |  |
|                                       |                       |          |          |        |           |          |                                      | 529    | 2.521 | 1.6416   |  |
|                                       |                       |          |          |        |           |          |                                      | 530    | 2.563 | 1.6582   |  |
|                                       |                       |          |          |        |           |          |                                      | 532    | 2.494 | 1.6846   |  |
|                                       |                       |          |          |        |           |          |                                      | 534    | 2.447 | 1.7136   |  |
|                                       |                       |          |          |        |           |          |                                      | 537    | 2.267 | 1.7505   |  |
|                                       |                       |          |          |        |           |          |                                      | 540    | 2.023 | 1.7869   |  |
|                                       |                       |          |          |        |           |          |                                      | 542    | 1.906 | 1.8099   |  |
|                                       |                       |          |          |        |           |          |                                      | 544    | 1.833 | 1.8294   |  |
|                                       |                       |          |          |        |           |          |                                      | 546    | 1.897 | 1.8513   |  |
|                                       |                       |          |          |        |           |          |                                      | 547    | 1.860 | 1.8611   |  |
|                                       |                       |          |          |        |           |          |                                      | 552    | 1.971 | 1.9136   |  |
|                                       |                       |          |          |        |           |          |                                      | 554    | 2.032 | 1.9371   |  |
|                                       |                       |          |          |        |           |          |                                      | 556    | 2.237 | 1.9594   |  |
|                                       |                       |          |          |        |           |          |                                      | 557    | 2.307 | 1.9742   |  |
|                                       |                       |          |          |        |           |          |                                      | 559    | 2.302 | 1.9982   |  |
|                                       |                       |          |          |        |           |          |                                      | 602    | 2.232 | 2.0367   |  |
|                                       |                       |          |          |        |           |          |                                      | 607    | 1.952 | 2.0940   |  |
|                                       |                       |          |          |        |           |          |                                      | 612    | 1.540 | 2.1441   |  |
|                                       |                       |          |          |        |           |          |                                      | 617    | 1.151 | 2.1809   |  |
|                                       |                       |          |          |        |           |          |                                      | 622    | 0.854 | 2.2084   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

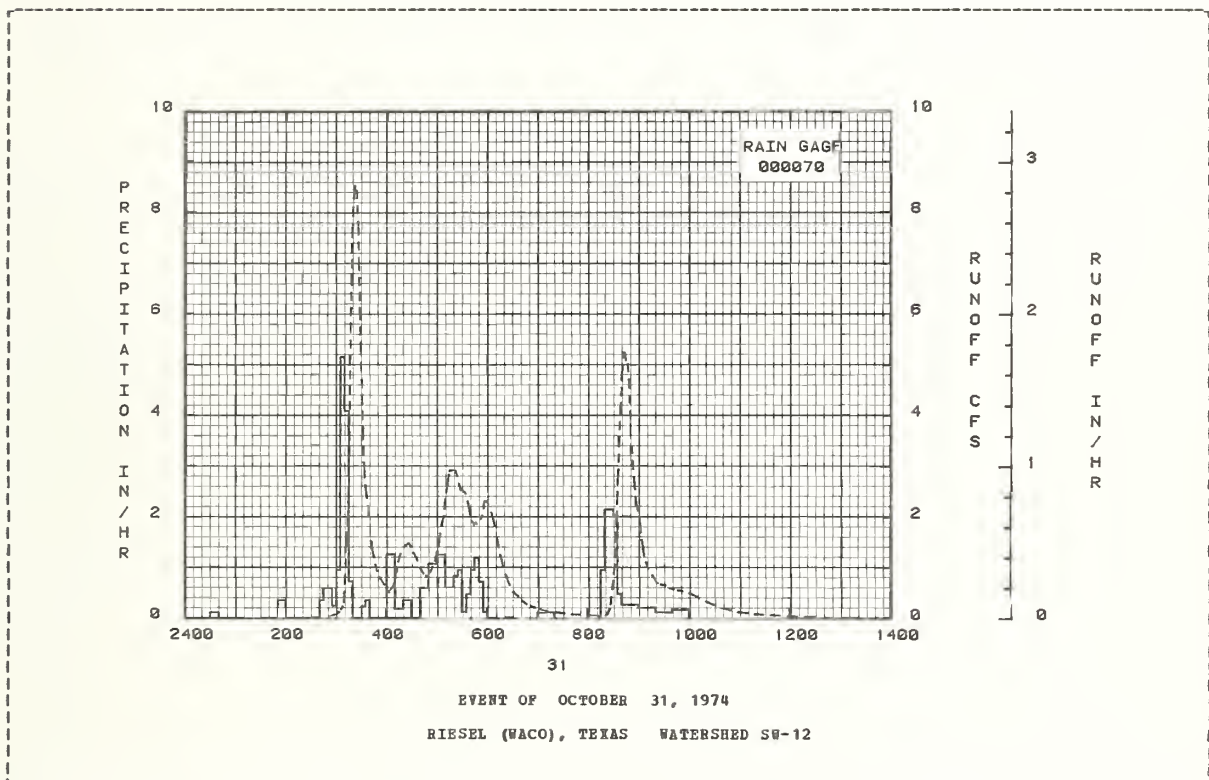


| 1974 SELECTED RUNOFF EVENT            |          |          | RIESEL (WACO), TEXAS WATERSHED SW-12 |        |           |          |        |        |       |          |
|---------------------------------------|----------|----------|--------------------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                             |        |           | RUNOFF   |        |        |       |          |
| Date                                  | Rainfall | Runoff   | Date                                 | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day                               | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                                      |        |           |          |        |        |       |          |
|                                       |          |          |                                      |        |           |          | 10-31  | 627    | 0.651 | 2.2300   |
|                                       |          |          |                                      |        |           |          |        | 632    | 0.503 | 2.2458   |
|                                       |          |          |                                      |        |           |          |        | 637    | 0.430 | 2.2586   |
|                                       |          |          |                                      |        |           |          |        | 642    | 0.339 | 2.2696   |
|                                       |          |          |                                      |        |           |          |        | 647    | 0.284 | 2.2781   |
|                                       |          |          |                                      |        |           |          |        | 652    | 0.241 | 2.2853   |
|                                       |          |          |                                      |        |           |          |        | 657    | 0.208 | 2.2918   |
|                                       |          |          |                                      |        |           |          |        | 702    | 0.181 | 2.2971   |
|                                       |          |          |                                      |        |           |          |        | 712    | 0.140 | 2.3061   |
|                                       |          |          |                                      |        |           |          |        | 722    | 0.117 | 2.3131   |
|                                       |          |          |                                      |        |           |          |        | 732    | 0.095 | 2.3191   |
|                                       |          |          |                                      |        |           |          |        | 742    | 0.082 | 2.3240   |
|                                       |          |          |                                      |        |           |          |        | 752    | 0.072 | 2.3282   |
|                                       |          |          |                                      |        |           |          |        | 802    | 0.063 | 2.3320   |
|                                       |          |          |                                      |        |           |          |        | 812    | 0.055 | 2.3353   |
|                                       |          |          |                                      |        |           |          |        | 821    | 0.054 | 2.3380   |
|                                       |          |          |                                      |        |           |          |        | 822    | 0.072 | 2.3384   |
|                                       |          |          |                                      |        |           |          |        | 823    | 0.093 | 2.3389   |
|                                       |          |          |                                      |        |           |          |        | 824    | 0.117 | 2.3395   |
|                                       |          |          |                                      |        |           |          |        | 825    | 0.146 | 2.3401   |
|                                       |          |          |                                      |        |           |          |        | 826    | 0.199 | 2.3410   |
|                                       |          |          |                                      |        |           |          |        | 827    | 0.294 | 2.3426   |
|                                       |          |          |                                      |        |           |          |        | 828    | 0.430 | 2.3445   |
|                                       |          |          |                                      |        |           |          |        | 829    | 0.613 | 2.3473   |
|                                       |          |          |                                      |        |           |          |        | 830    | 0.751 | 2.3517   |
|                                       |          |          |                                      |        |           |          |        | 831    | 0.889 | 2.3560   |
|                                       |          |          |                                      |        |           |          |        | 832    | 1.067 | 2.3611   |
|                                       |          |          |                                      |        |           |          |        | 833    | 1.553 | 2.3679   |
|                                       |          |          |                                      |        |           |          |        | 834    | 1.971 | 2.3794   |
|                                       |          |          |                                      |        |           |          |        | 835    | 2.499 | 2.3911   |
|                                       |          |          |                                      |        |           |          |        | 836    | 2.941 | 2.4053   |
|                                       |          |          |                                      |        |           |          |        | 837    | 3.425 | 2.4219   |
|                                       |          |          |                                      |        |           |          |        | 838    | 3.878 | 2.4457   |
|                                       |          |          |                                      |        |           |          |        | 839    | 4.251 | 2.4669   |
|                                       |          |          |                                      |        |           |          |        | 840    | 4.729 | 2.4903   |
|                                       |          |          |                                      |        |           |          |        | 841    | 4.999 | 2.5157   |
|                                       |          |          |                                      |        |           |          |        | 843    | 5.239 | 2.5758   |
|                                       |          |          |                                      |        |           |          |        | 845    | 5.078 | 2.6363   |
|                                       |          |          |                                      |        |           |          |        | 847    | 5.009 | 2.6890   |
|                                       |          |          |                                      |        |           |          |        | 849    | 4.541 | 2.7450   |
|                                       |          |          |                                      |        |           |          |        | 851    | 3.712 | 2.7881   |
|                                       |          |          |                                      |        |           |          |        | 853    | 3.087 | 2.8280   |
|                                       |          |          |                                      |        |           |          |        | 855    | 2.694 | 2.8582   |
|                                       |          |          |                                      |        |           |          |        | 857    | 2.333 | 2.8977   |
|                                       |          |          |                                      |        |           |          |        | 859    | 2.128 | 2.9109   |
|                                       |          |          |                                      |        |           |          |        | 901    | 1.976 | 2.9350   |
|                                       |          |          |                                      |        |           |          |        | 903    | 1.701 | 2.9542   |
|                                       |          |          |                                      |        |           |          |        | 905    | 1.416 | 2.9725   |
|                                       |          |          |                                      |        |           |          |        | 907    | 1.226 | 2.9863   |
|                                       |          |          |                                      |        |           |          |        | 909    | 1.109 | 3.0000   |
|                                       |          |          |                                      |        |           |          |        | 912    | 0.981 | 3.0177   |
|                                       |          |          |                                      |        |           |          |        | 917    | 0.831 | 3.0424   |
|                                       |          |          |                                      |        |           |          |        | 922    | 0.699 | 3.0634   |
|                                       |          |          |                                      |        |           |          |        | 927    | 0.666 | 3.0830   |
|                                       |          |          |                                      |        |           |          |        | 932    | 0.646 | 3.1009   |
|                                       |          |          |                                      |        |           |          |        | 937    | 0.601 | 3.1180   |
|                                       |          |          |                                      |        |           |          |        | 942    | 0.577 | 3.1349   |
|                                       |          |          |                                      |        |           |          |        | 947    | 0.557 | 3.1504   |
|                                       |          |          |                                      |        |           |          |        | 952    | 0.539 | 3.1655   |
|                                       |          |          |                                      |        |           |          |        | 1002   | 0.488 | 3.1943   |
|                                       |          |          |                                      |        |           |          |        | 1012   | 0.414 | 3.2195   |
|                                       |          |          |                                      |        |           |          |        | 1030   | 0.271 | 3.2539   |
|                                       |          |          |                                      |        |           |          |        | 1040   | 0.207 | 3.2670   |
|                                       |          |          |                                      |        |           |          |        | 1050   | 0.165 | 3.2775   |
|                                       |          |          |                                      |        |           |          |        | 1100   | 0.133 | 3.2858   |
|                                       |          |          |                                      |        |           |          |        | 1110   | 0.108 | 3.2924   |
|                                       |          |          |                                      |        |           |          |        | 1120   | 0.090 | 3.2980   |
|                                       |          |          |                                      |        |           |          |        | 1140   | 0.067 | 3.3067   |
|                                       |          |          |                                      |        |           |          |        | 1200   | 0.051 | 3.3133   |
|                                       |          |          |                                      |        |           |          |        | 1230   | 0.037 | 3.3207   |
|                                       |          |          |                                      |        |           |          |        | 1300   | 0.027 | 3.3260   |
|                                       |          |          |                                      |        |           |          |        | 1400   | 0.016 | 3.3332   |
|                                       |          |          |                                      |        |           |          |        | 1500   | 0.012 | 3.3378   |
|                                       |          |          |                                      |        |           |          |        | 1600   | 0.009 | 3.3414   |
|                                       |          |          |                                      |        |           |          |        | 1800   | 0.006 | 3.3464   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

| 1974      SELECTED RUNOFF EVENT       |          |          | RIESEL (WACO), TEXAS      WATERSHED SW-12 |        |           |          |        |        |       |          |
|---------------------------------------|----------|----------|---|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL                                  |        |           | RUNOFF   |        |        |       |          |
| Date                                  | Rainfall | Runoff   | Date                                      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                | (inches) | (inches) | Mo-Day                                    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |   |        |           |          |        |        |       |          |
|                                       |          |          |   |        |           |          | 10-31  | 2400   | 0.004 | 3.3564   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.



RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 45 sec. N.; Long. 96 deg. 53 min. 14 sec. W.

AREA: 2.99 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | HIESEL (WACO), TEXAS WATERSHED SW-17 |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|--------------------------------------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                  | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 2.26              | 1.03  | 1.50   | 3.13  | 2.13    | 0.42  | 1.63                                 | 7.11  | 9.06     | 6.56  | 5.08  | 1.66  | 41.57  |       |        |       |
|   | Q | 0.270             | 0.188 | 0.005  | 0.583 | 0.275   | 0.0   | 0.0                                  | 0.012 | 4.927    | 3.953 | 2.546 | 0.604 | 13.362 |       |        |       |
| STA AV  | P | 2.03              | 2.61  | 2.29   | 4.02  | 3.67    | 3.50  | 1.91                                 | 2.43  | 3.02     | 3.41  | 2.97  | 2.41  | 34.27  |       |        |       |
|   | Q | 0.436             | 0.586 | 0.723  | 0.983 | 0.738   | 0.803 | 0.193                                | 0.087 | 0.317    | 0.379 | 0.559 | 0.579 | 6.385  |       |        |       |
|   |   |                   |       |        |       |         |       |                                      |       |          |       |       |       |        |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |                                      |       |          |       |       |       |        |       |        |       |
|   |   |                   |       |        |       |         |       |                                      |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours                              |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                 | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 9-17              | 1.941 | 9-17   | 1.567 | 9-17    | 2.119 | 10-31                                | 2.833 | 10-31    | 3.479 | 9-16  | 3.896 | 9-16   | 4.046 | 9-10   | 4.908 |
|   |   |                   |       |        |       |         |       |                                      |       |          |       |       |       |        |       |        |       |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |                                      |       |          |       |       |       |        |       |        |       |
|   |   | 10-31             | 7.060 | 4-19   | 2.540 | 4-19    | 2.960 | 4-23                                 | 3.310 | 3-29     | 3.520 | 3-29  | 4.250 | 11-22  | 5.370 | 4-19   | 9.420 |
|   |   | 1940              |       | 1957   |       | 1957    |       | 1957                                 |       | 1965     |       | 1965  |       | 1940   |       | 1957   |       |

NOTES: Watershed conditions: 100% Berlandgrass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42-28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gage W-2. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974   |     | DAILY PRECIPITATION (inches) |       |       |       |      |      | RIESEL (WACO), TEXAS |       |       | WATERSHED SW-17 |       |       |  |
|--------|-----|------------------------------|-------|-------|-------|------|------|----------------------|-------|-------|-----------------|-------|-------|--|
|        | Day | Jan                          | Feb   | Mar   | Apr   | May  | Jun  | Jul                  | Aug   | Sep   | Oct             | Nov   | Dec   |  |
|        | 1   | 0.01E                        | 0.0   | 0.0   | 0.0   | 1.32 | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 2   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.01E | 0.0   |  |
|        | 3   | 0.04E                        | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.02E | 0.66  | 0.0             | 0.0   | 0.0   |  |
|        | 4   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.30  | 0.0   |  |
|        | 5   | 0.0                          | 0.0   | 0.0   | 0.0   | 0.65 | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.18E |  |
|        | 6   | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 7   | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.77  | 0.0   |  |
|        | 8   | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.30  | 0.0   | 0.0             | 0.06  | 0.0   |  |
|        | 9   | 0.01E                        | 0.0   | 0.02E | 0.0   | 0.0  | 0.21 | 0.0                  | 0.0   | 0.39  | 0.0             | 0.04  | 0.0   |  |
|        | 10  | 0.20                         | 0.0   | 0.28  | 0.0   | 0.16 | 0.0  | 0.0                  | 0.0   | 1.05  | 0.0             | 0.48  | 0.72  |  |
|        | 11  | 0.0                          | 0.0   | 0.0   | 1.01  | 0.0  | 0.0  | 0.08E                | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 12  | 0.0                          | 0.0   | 0.19  | 0.0   | 0.0  | 0.21 | 0.0                  | 0.0   | 0.70  | 0.0             | 0.0   | 0.0   |  |
|        | 13  | 0.05E                        | 0.0   | 0.0   | 1.31  | 0.0  | 0.0  | 0.0                  | 0.0   | 1.06  | 0.0             | 0.0   | 0.0   |  |
|        | 14  | 0.0                          | 0.06E | 0.32  | 0.0   | 0.0  | 0.0  | 0.18                 | 0.0   | 0.48  | 0.85            | 0.0   | 0.0   |  |
|        | 15  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.07E                | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 16  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.33                 | 0.0   | 0.97  | 0.0             | 0.0   | 0.0   |  |
|        | 17  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 3.34  | 0.0             | 0.0   | 0.0   |  |
|        | 18  | 0.45                         | 0.17  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 19  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 20  | 0.0                          | 0.0   | 0.41  | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 21  | 0.0                          | 0.80  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.16  | 0.0             | 0.0   | 0.0   |  |
|        | 22  | 0.0                          | 0.0   | 0.0   | 0.45  | 0.0  | 0.0  | 0.0                  | 1.88  | 0.0   | 0.0             | 0.0   | 0.0   |  |
|        | 23  | 0.32                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.0   | 0.0             | 2.79  | 0.0   |  |
|        | 24  | 0.35                         | 0.0   | 0.28  | 0.0   | 0.0  | 0.0  | 0.0                  | 0.0   | 0.09  | 0.16            | 0.28  | 0.28  |  |
|        | 25  | 0.48                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.14  | 0.14  | 0.0             | 0.0   | 0.0   |  |
|        | 26  | 0.32                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.35                 | 2.04  | 0.02E | 0.0             | 0.0   | 0.14E |  |
|        | 27  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.10  | 0.0   | 0.0             | 0.0   | 0.05E |  |
|        | 28  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0                  | 0.99  | 0.0   | 0.70            | 0.0   | 0.05E |  |
|        | 29  | 0.0                          | 0.0   | 0.0   | 0.13E | 0.0  | 0.0  | 0.0                  | 0.68  | 0.0   | 0.0             | 0.35  | 0.05E |  |
|        | 30  | 0.0                          | 0.0   | 0.0   | 0.23  | 0.0  | 0.0  | 0.0                  | 0.96  | 0.0   | 1.49            | 0.0   | 0.07E |  |
|        | 31  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.62                 | 0.0   | 3.36  | 0.0             | 0.12E | 0.0   |  |
| TOTAL  |     | 2.26                         | 1.03  | 1.50  | 3.13  | 2.13 | 0.42 | 1.63                 | 7.11  | 9.06  | 6.56            | 5.08  | 1.66  |  |
| STA AV |     | 2.03                         | 2.61  | 2.29  | 4.02  | 3.67 | 3.50 | 1.91                 | 2.43  | 3.02  | 3.41            | 2.97  | 2.41  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-17 |        |        |       |        |        |       |       |       |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.032  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.002  |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.002  |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.002  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.015  | 0.001  |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.001  |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.014  | 0.0    | 0.022  | 0.024  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.004  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.002  |
| 13   | 0.0    | 0.0    | 0.0   | 0.059  | 0.0    | 0.0   | 0.0   | 0.0   | 0.057  | 0.0    | 0.0    | 0.002  |
| 14   | 0.0    | 0.0    | 0.0   | 0.015  | 0.0    | 0.0   | 0.0   | 0.0   | 0.038  | 0.0    | 0.0    | 0.003  |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.001  | 0.0    | 0.0    | 0.003  |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.039  | 0.0    | 0.0    | 0.003  |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.455  | 0.0    | 0.0    | 0.003  |
| 18   | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.015  | 0.0    | 0.0    | 0.003  |
| 19   | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  |
| 20   | 0.0    | 0.0    | 0.001 | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 21   | 0.0    | 0.024  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.196  | 0.002  |
| 24   | 0.004  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.064  | 0.002  |
| 25   | 0.008  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.005  | 0.0 T  |
| 26   | 0.021  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 29   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.002  | 0.0    |
| 30   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.001 | 0.0    | 0.053  | 0.001  | 0.0    |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.444  | 0.444  | 0.444  | 0.001  |
| MEAN   | 0.0011 | 0.0008 | 0.0   | 0.0024 | 0.0011 | 0.0   | 0.0   | 0.0   | 0.0206 | 0.0160 | 0.0107 | 0.0024 |
| INCHES   | 0.270  | 0.188  | 0.005 | 0.583  | 0.275  | 0.0   | 0.0   | 0.012 | 4.927  | 3.953  | 2.546  | 0.604  |
| STA AV   | 0.436  | 0.586  | 0.723 | 0.983  | 0.738  | 0.803 | 0.193 | 0.087 | 0.317  | 0.379  | 0.559  | 0.579  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 30 yr period.

| 1974                           | SELECTED RUNOFF EVENT |          |           |        |           | HIESEL (WACO), TEXAS |        |        |       |          | WATERSHED SW-17 |  |
|--------------------------------|-----------------------|----------|-----------|--------|-----------|----------------------|--------|--------|-------|----------|-----------------|--|
| ANTECEDENT CONDITIONS          |                       |          | RAINFALL  |        |           | HUNOFF               |        |        |       |          |                 |  |
| Date                           | Rainfall              | Runoff   | Date      | Time   | Intensity | Acc.                 | Date   | Time   | Rate  | Acc.     |                 |  |
| Mo-Day                         | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs) | (inches) |                 |  |
| EVENT OF OCTOBER 30 - 31, 1974 |                       |          |           |        |           |                      |        |        |       |          |                 |  |
| HG 0000W2                      |                       |          | HG 0000W2 |        |           |                      |        |        |       |          |                 |  |
| 10-30                          | 1.49                  | 0.419    | 10-30     | 2400   | 0.0       | 0.0                  | 10-30  | 2400   | 0.007 | 0.0      |                 |  |
|                                |                       |          | 10-31     | 30     | 0.0       | 0.0                  | 10-31  | 200    | 0.008 | 0.0001   |                 |  |
|                                |                       |          |           | 50     | 0.1200    | 0.04                 |        | 300    | 0.027 | 0.0008   |                 |  |
|                                |                       |          |           | 155    | 0.0       | 0.04                 |        | 310    | 0.687 | 0.0036   |                 |  |
|                                |                       |          |           | 200    | 0.7202    | 0.10                 |        | 311    | 0.939 | 0.0078   |                 |  |
| WATERSHED CONDITIONS:          |                       |          |           | 235    | 0.0       | 0.10                 |        | 312    | 1.172 | 0.0146   |                 |  |
| 100% Bermudagrass pasture,     |                       |          |           | 240    | 0.2399    | 0.12                 |        | 313    | 1.795 | 0.0223   |                 |  |
| 4 to 6 inches high, dormant.   |                       |          |           | 245    | 0.3600    | 0.15                 |        | 314    | 2.122 | 0.0325   |                 |  |
|                                |                       |          |           | 250    | 0.3600    | 0.18                 |        | 315    | 2.457 | 0.0473   |                 |  |
|                                |                       |          |           | 255    | 0.2401    | 0.20                 |        | 316    | 2.637 | 0.0605   |                 |  |
|                                |                       |          |           | 300    | 0.2401    | 0.22                 |        | 317    | 2.750 | 0.0745   |                 |  |
|                                |                       |          |           | 304    | 0.9000    | 0.28                 |        | 318    | 2.859 | 0.0890   |                 |  |
|                                |                       |          |           | 308    | 3.7500    | 0.53                 |        | 320    | 3.059 | 0.1235   |                 |  |
|                                |                       |          |           | 310    | 6.3002    | 0.74                 |        | 322    | 3.156 | 0.1557   |                 |  |
|                                |                       |          |           | 312    | 5.9999    | 0.94                 |        | 323    | 3.156 | 0.1762   |                 |  |
|                                |                       |          |           | 314    | 2.9997    | 1.04                 |        | 325    | 3.059 | 0.2084   |                 |  |
|                                |                       |          |           | 316    | 1.2003    | 1.08                 |        | 327    | 2.882 | 0.2430   |                 |  |
|                                |                       |          |           | 335    | 0.0       | 1.08                 |        | 329    | 2.643 | 0.2716   |                 |  |
|                                |                       |          |           | 340    | 0.4799    | 1.12                 |        | 331    | 2.457 | 0.3014   |                 |  |
|                                |                       |          |           | 400    | 0.0       | 1.12                 |        | 333    | 2.320 | 0.3261   |                 |  |
|                                |                       |          |           | 405    | 0.6000    | 1.17                 |        | 335    | 2.147 | 0.3522   |                 |  |
|                                |                       |          |           | 410    | 2.0400    | 1.34                 |        | 337    | 1.953 | 0.3734   |                 |  |
|                                |                       |          |           | 415    | 0.7200    | 1.40                 |        | 340    | 1.786 | 0.4049   |                 |  |
|                                |                       |          |           | 420    | 0.1201    | 1.41                 |        | 343    | 1.606 | 0.4335   |                 |  |
|                                |                       |          |           | 430    | 0.3600    | 1.47                 |        | 346    | 1.427 | 0.4590   |                 |  |
|                                |                       |          |           | 440    | 0.1200    | 1.49                 |        | 350    | 1.238 | 0.4884   |                 |  |
|                                |                       |          |           | 450    | 0.2400    | 1.53                 |        | 355    | 1.104 | 0.5202   |                 |  |
|                                |                       |          |           | 455    | 0.7200    | 1.59                 |        | 359    | 0.949 | 0.5428   |                 |  |
|                                |                       |          |           | 500    | 1.2001    | 1.69                 |        | 400    | 1.002 | 0.5491   |                 |  |
|                                |                       |          |           | 505    | 1.0800    | 1.78                 |        | 403    | 0.985 | 0.5646   |                 |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

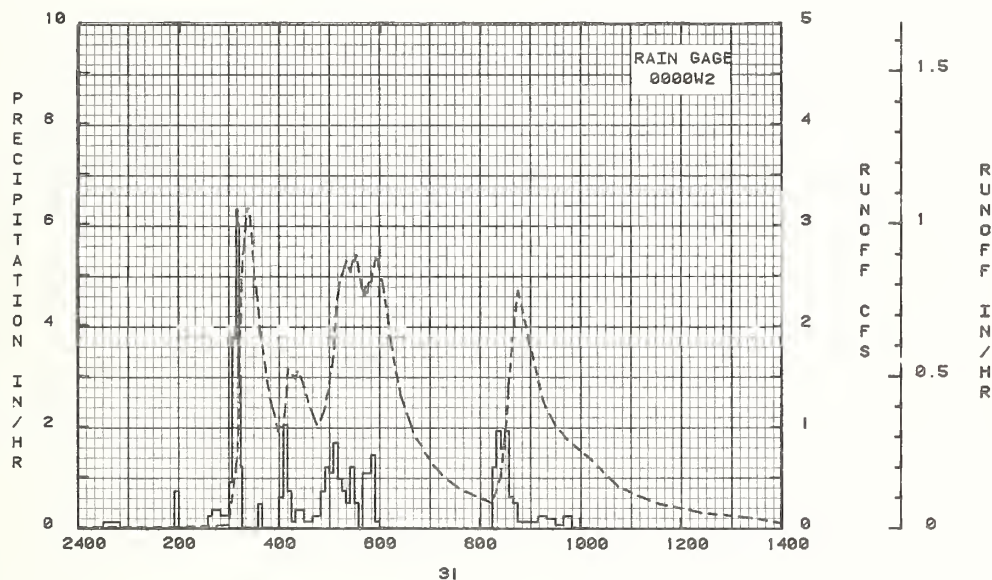


| 1974      SELECTED RUNOFF EVENT                           |          |          | RIESEL (WACO), TEXAS      WATERSHED SW-17 |        |           |          |        |        |       |          |        |
|---|----------|----------|---|--------|-----------|----------|--------|--------|-------|----------|--------|
| ANTECEDENT CONDITIONS                                     |          |          | RAINFALL                                  |        |           | RUNOFF   |        |        |       |          |        |
| Date  | Rainfall | Runoff   | Date                                      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |        |
| Mo-Day  | (inches) | (inches) | Mo-Day                                    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |        |
| EVENT OF      OCTOBER      30 - 31, 1974      (CONTINUED) |          |          |   |        |           |          |        |        |       |          |        |
| 10-31   |          |          | 510                                       |        | 1.6800    | 1.92     | 10-31  | 405    | 0.949 | 0.5759   |        |
|   |          |          | 515                                       |        | 0.9600    | 2.00     |        | 407    | 1.150 | 0.5867   |        |
|   |          |          | 520                                       |        | 0.7200    | 2.06     |        | 409    | 1.333 | 0.6012   |        |
|   |          |          | 525                                       |        | 0.4801    | 2.10     |        | 410    | 1.534 | 0.6087   |        |
|   |          |          | 530                                       |        | 1.1999    | 2.20     |        | 411    | 1.567 | 0.6167   |        |
|   |          |          | 535                                       |        | 0.4801    | 2.24     |        | 420    | 1.472 | 0.6935   |        |
|   |          |          | 540                                       |        | 0.0       | 2.24     |        | 422    | 1.546 | 0.7091   |        |
|   |          |          | 545                                       |        | 1.0800    | 2.33     |        | 425    | 1.501 | 0.7348   |        |
|   |          |          | 550                                       |        | 1.0800    | 2.42     |        | 430    | 1.392 | 0.7760   |        |
|   |          |          | 555                                       |        | 1.4399    | 2.54     |        | 435    | 1.242 | 0.8118   |        |
|   |          |          | 600                                       |        | 0.1201    | 2.55     |        | 440    | 1.118 | 0.8439   |        |
|   |          |          | 815                                       |        | 0.0       | 2.55     |        | 445    | 1.022 | 0.8744   |        |
|   |          |          | 820                                       |        | 1.1999    | 2.65     |        | 450    | 1.073 | 0.9029   |        |
|   |          |          | 825                                       |        | 1.9200    | 2.81     |        | 455    | 1.197 | 0.9338   |        |
|   |          |          | 830                                       |        | 1.5601    | 2.94     |        | 457    | 1.310 | 0.9484   |        |
|   |          |          | 835                                       |        | 1.9200    | 3.10     |        | 459    | 1.356 | 0.9622   |        |
|   |          |          | 840                                       |        | 0.5999    | 3.15     |        | 501    | 1.530 | 0.9791   |        |
|   |          |          | 845                                       |        | 0.4801    | 3.19     |        | 503    | 1.601 | 0.9953   |        |
|   |          |          | 850                                       |        | 0.1199    | 3.20     |        | 505    | 1.701 | 1.0146   |        |
|   |          |          | 900                                       |        | 0.1200    | 3.22     |        | 506    | 1.868 | 1.0238   |        |
|   |          |          | 910                                       |        | 0.1200    | 3.24     |        | 507    | 2.020 | 1.0339   |        |
|   |          |          | 920                                       |        | 0.2400    | 3.28     |        | 508    | 2.192 | 1.0475   |        |
|   |          |          | 930                                       |        | 0.1800    | 3.31     |        | 510    | 2.325 | 1.0709   |        |
|   |          |          | 940                                       |        | 0.0600    | 3.32     |        | 512    | 2.431 | 1.0987   |        |
|   |          |          | 950                                       |        | 0.2401    | 3.36     |        | 515    | 2.511 | 1.1403   |        |
| 1010  |          |          |   |        | 0.0       | 3.36     |        | 520    | 2.637 | 1.2103   |        |
|   |          |          |   |        |           |          |        |        | 525   | 2.527    | 1.2806 |
|   |          |          |   |        |           |          |        |        | 528   | 2.654    | 1.3242 |
|   |          |          |   |        |           |          |        |        | 530   | 2.654    | 1.3551 |
|   |          |          |   |        |           |          |        |        | 532   | 2.704    | 1.3829 |
|   |          |          |   |        |           |          |        |        | 535   | 2.527    | 1.4270 |
|   |          |          |   |        |           |          |        |        | 538   | 2.388    | 1.4684 |
|   |          |          |   |        |           |          |        |        | 541   | 2.299    | 1.5048 |
|   |          |          |   |        |           |          |        |        | 542   | 2.299    | 1.5197 |
|   |          |          |   |        |           |          |        |        | 543   | 2.388    | 1.5318 |
|   |          |          |   |        |           |          |        |        | 545   | 2.331    | 1.5593 |
|   |          |          |   |        |           |          |        |        | 547   | 2.431    | 1.5840 |
|   |          |          |   |        |           |          |        |        | 550   | 2.441    | 1.6250 |
|   |          |          |   |        |           |          |        |        | 553   | 2.587    | 1.6674 |
|   |          |          |   |        |           |          |        |        | 555   | 2.682    | 1.6947 |
|   |          |          |   |        |           |          |        |        | 557   | 2.660    | 1.7258 |
|   |          |          |   |        |           |          |        |        | 600   | 2.527    | 1.7695 |
|   |          |          |   |        |           |          |        |        | 605   | 2.331    | 1.8356 |
|   |          |          |   |        |           |          |        |        | 610   | 2.054    | 1.8953 |
|   |          |          |   |        |           |          |        |        | 615   | 1.763    | 1.9497 |
|   |          |          |   |        |           |          |        |        | 620   | 1.517    | 1.9943 |
|   |          |          |   |        |           |          |        |        | 625   | 1.306    | 2.0327 |
|   |          |          |   |        |           |          |        |        | 630   | 1.197    | 2.0684 |
|   |          |          |   |        |           |          |        |        | 635   | 1.069    | 2.0992 |
|   |          |          |   |        |           |          |        |        | 640   | 0.949    | 2.1266 |
|   |          |          |   |        |           |          |        |        | 645   | 0.874    | 2.1526 |
|   |          |          |   |        |           |          |        |        | 650   | 0.807    | 2.1755 |
|   |          |          |   |        |           |          |        |        | 655   | 0.733    | 2.1964 |
|   |          |          |   |        |           |          |        |        | 700   | 0.677    | 2.2165 |
|   |          |          |   |        |           |          |        |        | 705   | 0.609    | 2.2340 |
|   |          |          |   |        |           |          |        |        | 715   | 0.520    | 2.2655 |
|   |          |          |   |        |           |          |        |        | 725   | 0.450    | 2.2919 |
|   |          |          |   |        |           |          |        |        | 735   | 0.390    | 2.3153 |
|   |          |          |   |        |           |          |        |        | 745   | 0.351    | 2.3359 |
|   |          |          |   |        |           |          |        |        | 755   | 0.309    | 2.3539 |
|   |          |          |   |        |           |          |        |        | 805   | 0.280    | 2.3703 |
|   |          |          |   |        |           |          |        |        | 815   | 0.244    | 2.3849 |
|   |          |          |   |        |           |          |        |        | 825   | 0.513    | 2.3875 |
|   |          |          |   |        |           |          |        |        | 830   | 0.901    | 2.3970 |
|   |          |          |   |        |           |          |        |        | 832   | 1.059    | 2.4072 |
|   |          |          |   |        |           |          |        |        | 834   | 1.348    | 2.4212 |
|   |          |          |   |        |           |          |        |        | 835   | 1.480    | 2.4285 |
|   |          |          |   |        |           |          |        |        | 845   | 2.351    | 2.4554 |
|   |          |          |   |        |           |          |        |        | 900   | 1.813    | 2.5103 |
|   |          |          |   |        |           |          |        |        | 915   | 1.264    | 2.5484 |
|   |          |          |   |        |           |          |        |        | 930   | 1.012    | 2.5785 |
|   |          |          |   |        |           |          |        |        | 945   | 0.871    | 2.6289 |
|   |          |          |   |        |           |          |        |        | 1015  | 0.657    | 2.6682 |
|   |          |          |   |        |           |          |        |        | 1045  | 0.413    | 2.6929 |
|   |          |          |   |        |           |          |        |        | 1115  | 0.298    | 2.7103 |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

| 1974      SELECTED RUNOFF EVENT                     |                      |                    | RIESEL (WACO), TEXAS      WATERSHED SW-17 |                |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                               |                      |                    | RAINFALL                                  |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                                      | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                            | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF    OCTOBER    30 - 31, 1974    (CONTINUED) |                      |                    |   |                |                      |                  |                |                |               |                  |
|   |                      |                    |   |                |                      |                  | 10-31          | 1135           | 0.236         | 2.7242           |
|   |                      |                    |   |                |                      |                  |                | 1225           | 0.153         | 2.7526           |
|   |                      |                    |   |                |                      |                  |                | 1325           | 0.099         | 2.7710           |
|   |                      |                    |   |                |                      |                  |                | 1500           | 0.048         | 2.7817           |
|   |                      |                    |   |                |                      |                  |                | 1800           | 0.016         | 2.7882           |
|   |                      |                    |   |                |                      |                  |                | 2400           | 0.003         | 2.7912           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.



EVENT OF OCTOBER 30 - 31, 1974  
RIESEL (WACO), TEXAS    WATERSHED SW-17

RIESEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 35 sec. N.; Long. 96 deg. 53 min. 49 sec. W.

AREA: 3.25 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | RIESEL (WACO), TEXAS WATERSHED SW-19 |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|--------------------------------------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                                  | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 2.35              | 1.12  | 1.45   | 4.17  | 2.17    | 0.59                                 | 0.56                                      | 7.06  | 8.58    | 7.01  | 4.65     | 1.74  | 41.45  |       |        |       |        |      |
|   | Q | 0.550             | 0.168 | 0.0    | 1.141 | 0.117   | 0.0                                  | 0.0                                       | 0.000 | 3.001   | 4.157 | 2.032    | 0.210 | 11.376 |       |        |       |        |      |
| STA AV  | P | 2.55              | 1.20  | 2.07   | 3.59  | 2.85    | 2.71                                 | 4.39                                      | 3.12  | 5.05    | 6.00  | 2.75     | 2.58  | 38.86  |       |        |       |        |      |
|   | Q | 0.885             | 0.080 | 0.917  | 0.891 | 0.265   | 0.637                                | 0.419                                     | 0.013 | 0.601   | 1.149 | 0.887    | 0.755 | 7.499  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUROFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                      |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                      | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                                 | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 9-17              | 1.570 | 4-13   | 0.890 | 10-31   | 1.140                                | 10-31                                     | 2.621 | 10-31   | 3.095 | 10-30    | 4.148 | 10-30  | 4.157 | 10-30  | 4.412 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                      |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 11-17             | 2.938 | 11-17  | 1.727 | 11-17   | 2.269                                | 10-31                                     | 2.621 | 10-31   | 3.095 | 10-30    | 4.148 | 10-30  | 4.157 | 10-30  | 4.412 |        |      |
|   |   | 1971              |       | 1971   |       | 1971    |                                      | 1974                                      |       | 1974    |       | 1974     |       | 1974   |       | 1974   |       | 1974   |      |

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |      |       |      |       |       |       |      |       |  | RIESEL (WACO), TEXAS WATERSHED SW-19 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|------|-------|--|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May  | Jun   | Jul  | Aug   | Sep   | Oct   | Nov  | Dec   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 1.32  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.05E | 0.0   | 0.0   | 0.0   | 0.0  | 0.05E | 0.0  | 0.0   | 0.03E | 0.66  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.43  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.60  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.15E |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.05E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.88  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.03E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.39  | 0.0   | 0.0   | 0.0  | 0.02  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.03E | 0.0   | 0.06E | 0.0   | 0.0  | 0.0   | 0.34 | 0.0   | 0.0   | 0.38  | 0.0  | 0.05  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.19  | 0.0   | 0.24  | 0.0   | 0.0  | 0.15  | 0.0  | 0.0   | 0.0   | 0.87  | 0.0  | 0.42  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0   | 0.0   | 0.0   | 0.99  | 0.0  | 0.0   | 0.0  | 0.04E | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0   | 0.0   | 0.06E | 0.0   | 0.0  | 0.0   | 0.25 | 0.0   | 0.0   | 0.46  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.07E | 0.0   | 0.0   | 2.42  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 1.09  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.08E | 0.27  | 0.0   | 0.0  | 0.0   | 0.0  | 0.17  | 0.0   | 0.64  | 0.59 | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.03E | 0.0   | 1.33  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 2.54  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.58  | 0.15  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0   | 0.0   | 0.55  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.89  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.15  | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.37  | 0.0  | 0.0   | 0.0  | 0.0   | 1.10  | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.15  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.33  | 0.0   | 0.27  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.09  | 0.17  | 0.25 | 0.32  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.48  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.34  | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.28  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.20E | 2.19  | 0.03E | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.06  | 0.0   | 0.0  | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 1.09  | 0.0   | 0.73 | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.10E | 0.0  | 0.0   | 0.0  | 0.0   | 0.85  | 0.0   | 0.0  | 0.45  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.29  | 0.0  | 0.0   | 0.0  | 0.0   | 1.35  | 0.0   | 2.32 | 0.0   |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.09E | 0.0   | 3.20  | 0.0  | 0.15E |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 2.35  | 1.12  | 1.45  | 4.17  | 2.17 | 0.59  | 0.59 | 0.56  | 7.06  | 8.58  | 7.01 | 4.65  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 2.55  | 1.20  | 2.07  | 3.59  | 2.85 | 2.71  | 4.39 | 3.12  | 5.05  | 6.00  | 2.75 | 2.58  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 5 yr (1970-74) record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-19 |        |        |       |        |        |       |       |       |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.016  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.041  | 0.0    |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.027  | 0.026  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 13   | 0.0    | 0.0    | 0.0   | 0.114  | 0.0    | 0.0   | 0.0   | 0.0   | 0.005  | 0.0    | 0.0    | 0.0    |
| 14   | 0.0    | 0.0    | 0.0   | 0.041  | 0.0    | 0.0   | 0.0   | 0.0   | 0.025  | 0.0    | 0.0    | 0.0    |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.004  | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.374  | 0.0    | 0.0    | 0.0    |
| 18   | 0.0    | T      | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.002  | 0.0    | 0.0    | 0.0    |
| 19   | 0.0    | T      | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.023  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.159  | 0.0    |
| 24   | 0.007  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.050  | 0.0    |
| 25   | 0.027  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 26   | 0.041  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 29   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 30   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | T      | 0.142  | 0.0    | 0.0    |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.425  | 0.001  | 0.001  |
| MEAN   | 0.0024 | 0.0008 | 0.0   | 0.0052 | 0.0005 | 0.0   | 0.0   | 0.0   | 0.0137 | 0.0183 | 0.0092 | 0.0009 |
| INCHES   | 0.550  | 0.168  | 0.0   | 1.141  | 0.117  | 0.0   | 0.0   | 0.000 | 3.001  | 4.157  | 2.032  | 0.210  |
| STA AV   | 0.885  | 0.980  | 0.917 | 0.891  | 0.265  | 0.637 | 0.419 | 0.013 | 0.601  | 1.149  | 0.887  | 0.755  |

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 7.323585. Records began September 1, 1970.  
STA AV based on 5 yr (1970-74) record period.

| 1974   | SELECTED RUNOFF EVENT |          |           |        |           | RIESEL (WACO), TEXAS |        |        |       |          | WATERSHED SW-19 |  |
|--|-----------------------|----------|-----------|--------|-----------|----------------------|--------|--------|-------|----------|-----------------|--|
| ANTECEDENT CONDITIONS  |                       |          | RAINFALL  |        |           |                      | RUNOFF |        |       |          |                 |  |
| Date   | Rainfall              | Rnoff    | Date      | Time   | Intensity | Acc.                 | Date   | Time   | Rate  | Acc.     |                 |  |
| Mo-Day   | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs) | (inches) |                 |  |
| EVENT OF OCTOBER 30 - 31, 1974   |                       |          |           |        |           |                      |        |        |       |          |                 |  |
| RG 00056B  |                       |          | RG 00056B |        |           |                      |        |        |       |          |                 |  |
| 10-30  | 2.32                  | 1.042    | 10-30     | 2400   | 0.0       | 0.0                  | 10-30  | 2400   | 0.017 | 0.0      |                 |  |
|  |                       |          | 10-31     | 35     | 0.0       | 0.0                  | 10-31  | 202    | 0.012 | 0.0090   |                 |  |
|  |                       |          |           | 45     | 0.1200    | 0.02                 |        | 240    | 0.046 | 0.0121   |                 |  |
|  |                       |          |           | 200    | 0.0       | 0.02                 |        | 245    | 0.052 | 0.0134   |                 |  |
|  |                       |          |           | 205    | 1.0800    | 0.11                 |        | 255    | 0.149 | 0.0146   |                 |  |
| WATERSHED CONDITIONS:  |                       |          |           |        |           |                      |        |        |       |          |                 |  |
| 100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite. |                       |          |           |        |           |                      |        |        |       |          |                 |  |
|  |                       |          |           | 210    | 0.3600    | 0.14                 |        | 305    | 0.381 | 0.0163   |                 |  |
|  |                       |          |           | 240    | 0.0       | 0.14                 |        | 308    | 0.780 | 0.0203   |                 |  |
|  |                       |          |           | 245    | 0.2401    | 0.16                 |        | 310    | 1.483 | 0.0264   |                 |  |
|  |                       |          |           | 250    | 0.1199    | 0.17                 |        | 311    | 1.919 | 0.0345   |                 |  |
|  |                       |          |           | 255    | 0.8401    | 0.24                 |        | 312    | 2.362 | 0.0472   |                 |  |
|  |                       |          |           | 300    | 0.4799    | 0.28                 |        | 313    | 2.770 | 0.0595   |                 |  |
|  |                       |          |           | 305    | 0.3600    | 0.31                 |        | 314    | 3.093 | 0.0734   |                 |  |
|  |                       |          |           | 310    | 2.1601    | 0.49                 |        | 315    | 3.457 | 0.0929   |                 |  |
|  |                       |          |           | 315    | 5.2798    | 0.93                 |        | 316    | 3.818 | 0.1103   |                 |  |
|  |                       |          |           | 320    | 1.5601    | 1.06                 |        | 317    | 4.104 | 0.1292   |                 |  |
|  |                       |          |           | 338    | 0.0667    | 1.08                 |        | 318    | 4.341 | 0.1493   |                 |  |
|  |                       |          |           | 340    | 2.0998    | 1.15                 |        | 319    | 4.601 | 0.1760   |                 |  |
|  |                       |          |           | 345    | 0.6000    | 1.20                 |        | 320    | 4.813 | 0.1984   |                 |  |
|  |                       |          |           | 410    | 0.0480    | 1.22                 |        | 323    | 4.813 | 0.2730   |                 |  |
|  |                       |          |           | 415    | 0.4799    | 1.26                 |        | 326    | 4.470 | 0.3394   |                 |  |
|  |                       |          |           | 425    | 0.1200    | 1.28                 |        | 329    | 4.126 | 0.4060   |                 |  |
|  |                       |          |           | 435    | 0.1200    | 1.30                 |        | 332    | 3.625 | 0.4660   |                 |  |
|  |                       |          |           | 440    | 0.1199    | 1.31                 |        | 335    | 3.248 | 0.5193   |                 |  |
|  |                       |          |           | 445    | 0.3600    | 1.34                 |        | 338    | 3.006 | 0.5677   |                 |  |
|  |                       |          |           | 450    | 0.8401    | 1.41                 |        | 341    | 2.682 | 0.6085   |                 |  |
|  |                       |          |           | 455    | 1.4399    | 1.53                 |        | 344    | 2.377 | 0.6477   |                 |  |
|  |                       |          |           | 500    | 0.9600    | 1.61                 |        | 347    | 2.130 | 0.6826   |                 |  |
|  |                       |          |           | 505    | 0.7200    | 1.67                 |        | 350    | 1.937 | 0.7141   |                 |  |
|  |                       |          |           | 510    | 1.3200    | 1.78                 |        | 353    | 1.745 | 0.7427   |                 |  |
|  |                       |          |           | 515    | 1.3200    | 1.89                 |        | 356    | 1.597 | 0.7666   |                 |  |

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.305149.

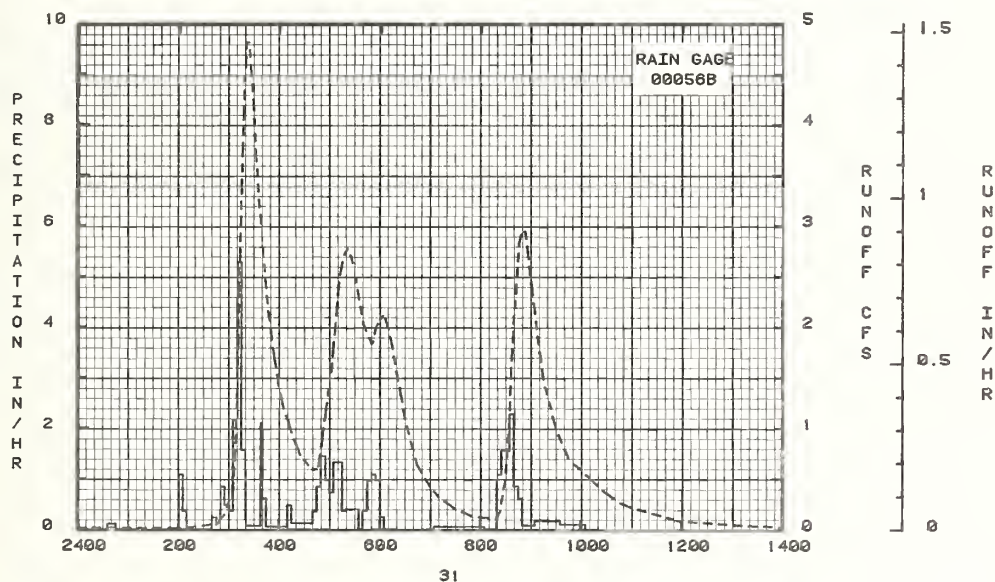


| 1974                                       | SELECTED RUNOFF EVENT |                    |                | RIESEL (WACO), TEXAS WATERSHED SW-19 |                      |                  |                |                |               |                  |
|--|-----------------------|--------------------|----------------|--------------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                       |                    | RAINFALL       |                                      |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                       | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |                    |                |                                      |                      |                  |                |                |               |                  |
|  |                       |                    | 10-31          | 520                                  | 0.3600               | 1.92             | 10-31          | 359            | 1.424         | 0.7900           |
|  |                       |                    |                | 535                                  | 0.4000               | 2.02             |                | 402            | 1.305         | 0.8111           |
|  |                       |                    |                | 540                                  | 0.0                  | 2.02             |                | 405            | 1.188         | 0.8304           |
|  |                       |                    |                | 545                                  | 0.3600               | 2.05             |                | 410            | 1.091         | 0.8589           |
|  |                       |                    |                | 550                                  | 0.9600               | 2.13             |                | 415            | 0.949         | 0.8857           |
|  |                       |                    |                | 555                                  | 1.0800               | 2.22             |                | 420            | 0.848         | 0.9082           |
|  |                       |                    |                | 600                                  | 0.9600               | 2.30             |                | 425            | 0.732         | 0.9280           |
|  |                       |                    |                | 605                                  | 0.2399               | 2.32             |                | 430            | 0.678         | 0.9464           |
|  |                       |                    |                | 705                                  | 0.0                  | 2.32             |                | 435            | 0.631         | 0.9628           |
|  |                       |                    |                | 805                                  | 0.0600               | 2.38             |                | 440            | 0.592         | 0.9781           |
|  |                       |                    |                | 820                                  | 0.0                  | 2.38             |                | 445            | 0.592         | 0.9937           |
|  |                       |                    |                | 825                                  | 1.0800               | 2.47             |                | 447            | 0.618         | 0.9994           |
|  |                       |                    |                | 830                                  | 1.5601               | 2.60             |                | 449            | 0.738         | 1.0067           |
|  |                       |                    |                | 835                                  | 1.5599               | 2.73             |                | 451            | 0.860         | 1.0143           |
|  |                       |                    |                | 840                                  | 2.2800               | 2.92             |                | 453            | 1.001         | 1.0243           |
|  |                       |                    |                | 845                                  | 0.8401               | 2.99             |                | 455            | 1.122         | 1.0344           |
|  |                       |                    |                | 850                                  | 0.5999               | 3.04             |                | 457            | 1.250         | 1.0471           |
|  |                       |                    |                | 905                                  | 0.0800               | 3.06             |                | 459            | 1.366         | 1.0596           |
|  |                       |                    |                | 935                                  | 0.1800               | 3.15             |                | 501            | 1.479         | 1.0749           |
|  |                       |                    |                | 1005                                 | 0.1000               | 3.20             |                | 503            | 1.639         | 1.0897           |
|  |                       |                    |                |                                      |                      |                  |                | 505            | 1.847         | 1.1084           |
|  |                       |                    |                |                                      |                      |                  |                | 507            | 2.039         | 1.1270           |
|  |                       |                    |                |                                      |                      |                  |                | 509            | 2.242         | 1.1499           |
|  |                       |                    |                |                                      |                      |                  |                | 511            | 2.444         | 1.1723           |
|  |                       |                    |                |                                      |                      |                  |                | 513            | 2.575         | 1.1992           |
|  |                       |                    |                |                                      |                      |                  |                | 515            | 2.644         | 1.2272           |
|  |                       |                    |                |                                      |                      |                  |                | 518            | 2.731         | 1.2656           |
|  |                       |                    |                |                                      |                      |                  |                | 521            | 2.775         | 1.3083           |
|  |                       |                    |                |                                      |                      |                  |                | 525            | 2.704         | 1.3638           |
|  |                       |                    |                |                                      |                      |                  |                | 530            | 2.512         | 1.4322           |
|  |                       |                    |                |                                      |                      |                  |                | 535            | 2.272         | 1.4921           |
|  |                       |                    |                |                                      |                      |                  |                | 540            | 2.035         | 1.5460           |
|  |                       |                    |                |                                      |                      |                  |                | 550            | 1.833         | 1.5919           |
|  |                       |                    |                |                                      |                      |                  |                | 552            | 1.856         | 1.6095           |
|  |                       |                    |                |                                      |                      |                  |                | 554            | 1.965         | 1.6300           |
|  |                       |                    |                |                                      |                      |                  |                | 557            | 2.035         | 1.6609           |
|  |                       |                    |                |                                      |                      |                  |                | 600            | 2.082         | 1.6928           |
|  |                       |                    |                |                                      |                      |                  |                | 603            | 2.111         | 1.7228           |
|  |                       |                    |                |                                      |                      |                  |                | 606            | 2.077         | 1.7553           |
|  |                       |                    |                |                                      |                      |                  |                | 610            | 1.969         | 1.7963           |
|  |                       |                    |                |                                      |                      |                  |                | 615            | 1.780         | 1.8454           |
|  |                       |                    |                |                                      |                      |                  |                | 620            | 1.543         | 1.8870           |
|  |                       |                    |                |                                      |                      |                  |                | 625            | 1.331         | 1.9230           |
|  |                       |                    |                |                                      |                      |                  |                | 630            | 1.087         | 1.9547           |
|  |                       |                    |                |                                      |                      |                  |                | 635            | 0.940         | 1.9801           |
|  |                       |                    |                |                                      |                      |                  |                | 640            | 0.775         | 2.0015           |
|  |                       |                    |                |                                      |                      |                  |                | 645            | 0.631         | 2.0200           |
|  |                       |                    |                |                                      |                      |                  |                | 650            | 0.560         | 2.0349           |
|  |                       |                    |                |                                      |                      |                  |                | 655            | 0.493         | 2.0480           |
|  |                       |                    |                |                                      |                      |                  |                | 700            | 0.421         | 2.0600           |
|  |                       |                    |                |                                      |                      |                  |                | 705            | 0.368         | 2.0699           |
|  |                       |                    |                |                                      |                      |                  |                | 710            | 0.317         | 2.0785           |
|  |                       |                    |                |                                      |                      |                  |                | 720            | 0.256         | 2.0932           |
|  |                       |                    |                |                                      |                      |                  |                | 730            | 0.203         | 2.1049           |
|  |                       |                    |                |                                      |                      |                  |                | 740            | 0.166         | 2.1142           |
|  |                       |                    |                |                                      |                      |                  |                | 750            | 0.129         | 2.1217           |
|  |                       |                    |                |                                      |                      |                  |                | 800            | 0.121         | 2.1281           |
|  |                       |                    |                |                                      |                      |                  |                | 810            | 0.113         | 2.1340           |
|  |                       |                    |                |                                      |                      |                  |                | 820            | 0.109         | 2.1397           |
|  |                       |                    |                |                                      |                      |                  |                | 824            | 0.191         | 2.1415           |
|  |                       |                    |                |                                      |                      |                  |                | 830            | 0.493         | 2.1443           |
|  |                       |                    |                |                                      |                      |                  |                | 835            | 1.115         | 2.1493           |
|  |                       |                    |                |                                      |                      |                  |                | 836            | 1.416         | 2.1553           |
|  |                       |                    |                |                                      |                      |                  |                | 837            | 1.601         | 2.1625           |
|  |                       |                    |                |                                      |                      |                  |                | 838            | 1.780         | 2.1726           |
|  |                       |                    |                |                                      |                      |                  |                | 839            | 1.956         | 2.1815           |
|  |                       |                    |                |                                      |                      |                  |                | 840            | 2.111         | 2.1912           |
|  |                       |                    |                |                                      |                      |                  |                | 842            | 2.347         | 2.2151           |
|  |                       |                    |                |                                      |                      |                  |                | 844            | 2.580         | 2.2386           |
|  |                       |                    |                |                                      |                      |                  |                | 846            | 2.825         | 2.2676           |
|  |                       |                    |                |                                      |                      |                  |                | 848            | 2.915         | 2.2950           |
|  |                       |                    |                |                                      |                      |                  |                | 853            | 2.943         | 2.3406           |
|  |                       |                    |                |                                      |                      |                  |                | 856            | 2.737         | 2.3812           |
|  |                       |                    |                |                                      |                      |                  |                | 859            | 2.506         | 2.4218           |
|  |                       |                    |                |                                      |                      |                  |                | 902            | 2.312         | 2.4592           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.

| 1974 SELECTED RUNOFF EVENT                 |          |          | RIESEL (WACO), TEXAS WATERSHED SW-19 |        |           |          |        |        |       |          |  |
|--|----------|----------|--------------------------------------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                             |        |           | RUNOFF   |        |        |       |          |  |
| Date                                       | Rainfall | Runoff   | Date                                 | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                               | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                      |        |           |          |        |        |       |          |  |
|  |          |          |                                      | 10-31  |           |          |        | 905    | 2.130 | 2.4936   |  |
|  |          |          |                                      |        |           |          |        | 908    | 1.901 | 2.5248   |  |
|  |          |          |                                      |        |           |          |        | 911    | 1.728 | 2.5508   |  |
|  |          |          |                                      |        |           |          |        | 915    | 1.479 | 2.5852   |  |
|  |          |          |                                      |        |           |          |        | 930    | 1.001 | 2.6130   |  |
|  |          |          |                                      |        |           |          |        | 945    | 0.705 | 2.6324   |  |
|  |          |          |                                      |        |           |          |        | 950    | 0.649 | 2.6494   |  |
|  |          |          |                                      |        |           |          |        | 1000   | 0.594 | 2.6812   |  |
|  |          |          |                                      |        |           |          |        | 1010   | 0.508 | 2.7088   |  |
|  |          |          |                                      |        |           |          |        | 1020   | 0.433 | 2.7329   |  |
|  |          |          |                                      |        |           |          |        | 1030   | 0.364 | 2.7533   |  |
|  |          |          |                                      |        |           |          |        | 1040   | 0.299 | 2.7699   |  |
|  |          |          |                                      |        |           |          |        | 1050   | 0.253 | 2.7841   |  |
|  |          |          |                                      |        |           |          |        | 1100   | 0.216 | 2.7961   |  |
|  |          |          |                                      |        |           |          |        | 1200   | 0.077 | 2.8053   |  |
|  |          |          |                                      |        |           |          |        | 1400   | 0.025 | 2.8155   |  |
|  |          |          |                                      |        |           |          |        | 1500   | 0.012 | 2.8212   |  |
|  |          |          |                                      |        |           |          |        | 1600   | 0.006 | 2.8239   |  |
|  |          |          |                                      |        |           |          |        | 1800   | 0.001 | 2.8245   |  |
|  |          |          |                                      |        |           |          |        | 2400   | 0.0   | 2.8250   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.



EVENT OF OCTOBER 30 - 31, 1974  
RIESEL (WACO), TEXAS WATERSHED SW-19

RIESEL (WACO), TEXAS WATERSHED SW-20

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 33 sec. N.; Long. 96 deg. 53 min. 44 sec. W.

AREA: 3.21 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | RIESEL (WACO), TEXAS WATERSHED SW-20 |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|--------------------------------------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                                  | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 2.35              | 1.12  | 1.45   | 4.17  | 2.17    | 0.59                                 | 0.56                                      | 7.06  | 8.58    | 7.01  | 4.65     | 1.74  | 41.45  |       |        |       |        |      |
|   | Q | 0.548             | 0.230 | 0.0    | 1.345 | 0.019   | 0.0                                  | 0.0                                       | 0.012 | 3.126   | 4.546 | 2.107    | 0.226 | 12.160 |       |        |       |        |      |
| STA AV  | P | 2.55              | 1.20  | 2.07   | 3.59  | 2.85    | 2.71                                 | 4.39                                      | 3.12  | 5.05    | 6.00  | 2.75     | 2.58  | 38.86  |       |        |       |        |      |
|   | Q | 0.997             | 0.107 | 1.101  | 1.057 | 0.416   | 0.811                                | 0.605                                     | 0.023 | 0.629   | 0.610 | 0.335    | 0.311 | 7.004  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                      |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                      | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                                 | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 9-17              | 2.476 | 4-13   | 1.095 | 10-31   | 1.344                                | 10-31                                     | 2.915 | 10-31   | 3.358 | 10-30    | 4.538 | 10-30  | 4.546 | 10-30  | 4.788 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                      |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 11-17             | 3.121 | 11-17  | 1.764 | 11-17   | 2.387                                | 10-31                                     | 2.915 | 10-31   | 3.358 | 10-30    | 4.538 | 10-30  | 4.546 | 10-30  | 4.788 |        |      |
|   |   | 1971              |       | 1971   |       | 1971    |                                      | 1974                                      |       | 1974    |       | 1974     |       | 1974   |       | 1974   |       | 1974   |      |

NOTES: Watershed conditions: 100% rangeland grasses with dead honey mesquite, moderately grazed. Honey mesquites were killed in 1972. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.036-5. Precipitation and runoff records began September 1, 1970, part year records are included in STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation record see National Weather Service records at Waco, Texas.

| 1974 |        | DAILY PRECIPITATION (inches) |       |       |       |       | RIESEL (WACO), TEXAS WATERSHED SW-20 |       |       |       |      |       |       |
|------|--------|------------------------------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|------|-------|-------|
|      | Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun                                  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |
|      | 1      | 0.01E                        | 0.0   | 0.0   | 0.0   | 1.32  | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 2      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0 E | 0.0   |
|      | 3      | 0.05E                        | 0.0   | 0.0   | 0.0   | 0.05E | 0.0                                  | 0.0   | 0.03E | 0.66  | 0.0  | 0.0   | 0.0   |
|      | 4      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.43  | 0.0   |
|      | 5      | 0.0                          | 0.0   | 0.0   | 0.0   | 0.60  | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.15E |
|      | 6      | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.05E | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 7      | 0.01E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.88  | 0.0   |
|      | 8      | 0.03E                        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.39  | 0.0   | 0.0  | 0.02  | 0.0   |
|      | 9      | 0.03E                        | 0.0   | 0.06E | 0.0   | 0.0   | 0.34                                 | 0.0   | 0.0   | 0.38  | 0.0  | 0.05  | 0.0   |
|      | 10     | 0.19                         | 0.0   | 0.24  | 0.0   | 0.15  | 0.0                                  | 0.0   | 0.0   | 0.87  | 0.0  | 0.42  | 0.75  |
|      | 11     | 0.0                          | 0.0   | 0.0   | 0.99  | 0.0   | 0.0                                  | 0.04E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 12     | 0.0                          | 0.0   | 0.06E | 0.0   | 0.0   | 0.25                                 | 0.0   | 0.0   | 0.46  | 0.0  | 0.0   | 0.0   |
|      | 13     | 0.07E                        | 0.0   | 0.0   | 2.42  | 0.0   | 0.0                                  | 0.0   | 0.0   | 1.09  | 0.0  | 0.0   | 0.0   |
|      | 14     | 0.0                          | 0.08E | 0.27  | 0.0   | 0.0   | 0.0                                  | 0.17  | 0.0   | 0.64  | 0.59 | 0.0   | 0.0   |
|      | 15     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 16     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.03E | 0.0   | 1.33  | 0.0  | 0.0   | 0.0   |
|      | 17     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 2.54  | 0.0  | 0.0   | 0.0   |
|      | 18     | 0.58                         | 0.15  | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 19     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 20     | 0.0                          | 0.0   | 0.55  | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 21     | 0.0                          | 0.89  | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.15  | 0.0  | 0.0   | 0.0   |
|      | 22     | 0.0                          | 0.0   | 0.0   | 0.37  | 0.0   | 0.0                                  | 0.0   | 1.10  | 0.0   | 0.0  | 0.0   | 0.0   |
|      | 23     | 0.28                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.0   | 0.0  | 2.15  | 0.0   |
|      | 24     | 0.33                         | 0.0   | 0.27  | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.09  | 0.17 | 0.25  | 0.32  |
|      | 25     | 0.48                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.0   | 0.34  | 0.0  | 0.0   | 0.0   |
|      | 26     | 0.28                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.20E | 2.19  | 0.03E | 0.0  | 0.0   | 0.09E |
|      | 27     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 0.06  | 0.0   | 0.0  | 0.0   | 0.06E |
|      | 28     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.0   | 1.09  | 0.0   | 0.73 | 0.0   | 0.06E |
|      | 29     | 0.0                          | 0.0   | 0.0   | 0.10E | 0.0   | 0.0                                  | 0.0   | 0.85  | 0.0   | 0.0  | 0.45  | 0.06E |
|      | 30     | 0.0                          | 0.0   | 0.29  | 0.0   | 0.0   | 0.0                                  | 0.0   | 1.35  | 0.0   | 2.32 | 0.0   | 0.10E |
|      | 31     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0                                  | 0.09E | 0.0   | 0.0   | 3.20 | 0.0   | 0.15E |
|      | TOTAL  | 2.35                         | 1.12  | 1.45  | 4.17  | 2.17  | 0.59                                 | 0.56  | 7.06  | 8.58  | 7.01 | 4.65  | 1.74  |
|      | STA AV | 2.55                         | 1.20  | 2.07  | 3.59  | 2.85  | 2.71                                 | 4.39  | 3.12  | 5.05  | 6.00 | 2.75  | 2.58  |

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 5 yr (1970-1974) record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-20 |        |        |       |        |        |       |       |        |        |        |        |        |
|--|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.003  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.038  | 0.0    |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.023  | 0.028  |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.001  |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 13   | 0.0    | 0.0    | 0.0   | 0.142  | 0.0    | 0.0   | 0.0   | 0.0    | 0.008  | 0.0    | 0.0    | 0.0    |
| 14   | 0.0    | 0.0    | 0.0   | 0.039  | 0.0    | 0.0   | 0.0   | 0.0    | 0.027  | 0.0    | 0.0    | 0.0    |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.003  | 0.0    | 0.0    | 0.0    |
| 17   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.382  | 0.0    | 0.0    | 0.0    |
| 18   | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    |
| 19   | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21   | 0.0    | 0.031  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.186  | 0.0    |
| 24   | 0.004  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.036  | 0.0    |
| 25   | 0.029  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 26   | 0.739  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 29   | 0.0    |        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30   | 0.0    |        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.002  | 0.0    | 0.158  | 0.0    | 0.0    |
| 31   | 0.0    |        | 0.0   |        | 0.0    |       | 0.0   | 0.0    |        | 0.455  |        | 0.001  |
| MEAN   | 0.0024 | 0.0011 | 0.0   | 0.0060 | 0.0001 | 0.0   | 0.0   | 0.0001 | 0.0141 | 0.0198 | 0.0095 | 0.0010 |
| INCRS  | 0.548  | 0.230  | 0.0   | 1.345  | 0.019  | 0.0   | 0.0   | 0.012  | 3.126  | 4.546  | 2.107  | 0.226  |
| STA AV   | 0.997  | 0.107  | 1.101 | 1.057  | 0.416  | 0.811 | 0.605 | 0.023  | 0.629  | 0.610  | 0.335  | 0.311  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.414845. Records began September 1, 1970.  
STA AV based on 5 yr (1970-74) record period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-20                                      |          |          |          |        |           |          |        |        |       |          |  |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|-------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |       |          |  |  |
| Date   | Rainfall | Rnnoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |  |
| EVENT OF OCTOBER 30 - 31, 1974   |          |          |          |        |           |          |        |        |       |          |  |  |
| RG 000568  |          |          |          |        |           |          |        |        |       |          |  |  |
| 10-30  | 2.32     | 1.174    | 10-30    | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 0.008 | 0.0      |  |  |
|  |          |          | 10-31    | 35     | 0.0       | 0.0      | 10-31  | 200    | 0.006 | 0.0043   |  |  |
|  |          |          |          | 45     | 0.1200    | 0.02     |        | 210    | 0.018 | 0.0049   |  |  |
|  |          |          |          | 290    | 0.0       | 0.02     |        | 220    | 0.029 | 0.0062   |  |  |
|  |          |          |          | 205    | 1.0800    | 0.11     |        | 230    | 0.031 | 0.0077   |  |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |       |          |  |  |
| 100% rangeland grasses, 4 to 6 inches tall, with dead honey mesquite. Mesquites were killed in 1972. |          |          |          | 210    | 0.3600    | 0.14     |        | 240    | 0.036 | 0.0094   |  |  |
|  |          |          |          | 240    | 0.0       | 0.14     |        | 245    | 0.044 | 0.0105   |  |  |
|  |          |          |          | 245    | 0.2401    | 0.16     |        | 250    | 0.063 | 0.0118   |  |  |
|  |          |          |          | 250    | 0.1199    | 0.17     |        | 252    | 0.084 | 0.0125   |  |  |
|  |          |          |          | 255    | 0.8401    | 0.24     |        | 254    | 0.120 | 0.0136   |  |  |
|  |          |          |          |        |           |          |        |        |       |          |  |  |
|  |          |          |          | 300    | 0.4799    | 0.28     |        | 257    | 0.164 | 0.0159   |  |  |
|  |          |          |          | 305    | 0.3600    | 0.31     |        | 300    | 0.206 | 0.0188   |  |  |
|  |          |          |          | 310    | 2.1601    | 0.49     |        | 303    | 0.243 | 0.0220   |  |  |
|  |          |          |          | 315    | 5.2798    | 0.93     |        | 305    | 0.305 | 0.0250   |  |  |
|  |          |          |          | 320    | 1.5601    | 1.06     |        | 307    | 0.413 | 0.0285   |  |  |
|  |          |          |          |        |           |          |        |        |       |          |  |  |
|  |          |          |          | 338    | 0.0667    | 1.08     |        | 308    | 0.569 | 0.0314   |  |  |
|  |          |          |          | 340    | 2.0998    | 1.15     |        | 309    | 0.821 | 0.0348   |  |  |
|  |          |          |          | 345    | 0.6000    | 1.20     |        | 310    | 1.178 | 0.0396   |  |  |
|  |          |          |          | 410    | 0.0480    | 1.22     |        | 311    | 1.914 | 0.0471   |  |  |
|  |          |          |          | 415    | 0.4799    | 1.26     |        | 312    | 2.972 | 0.0618   |  |  |
|  |          |          |          |        |           |          |        |        |       |          |  |  |
|  |          |          |          | 425    | 0.1200    | 1.28     |        | 313    | 5.413 | 0.0820   |  |  |
|  |          |          |          | 435    | 0.1200    | 1.30     |        | 314    | 7.097 | 0.1122   |  |  |
|  |          |          |          | 440    | 0.1199    | 1.31     |        | 315    | 7.426 | 0.1561   |  |  |
|  |          |          |          | 445    | 0.3600    | 1.34     |        | 316    | 7.721 | 0.1926   |  |  |
|  |          |          |          | 450    | 0.8401    | 1.41     |        | 318    | 7.929 | 0.2682   |  |  |
|  |          |          |          |        |           |          |        |        |       |          |  |  |
|  |          |          |          | 455    | 1.4399    | 1.53     |        | 320    | 7.375 | 0.3513   |  |  |
|  |          |          |          | 500    | 0.9600    | 1.61     |        | 322    | 6.577 | 0.4186   |  |  |
|  |          |          |          | 505    | 0.7200    | 1.67     |        | 324    | 5.775 | 0.4857   |  |  |
|  |          |          |          | 510    | 1.3200    | 1.78     |        | 326    | 4.989 | 0.5377   |  |  |
|  |          |          |          | 515    | 1.3200    | 1.89     |        | 328    | 4.326 | 0.5883   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.

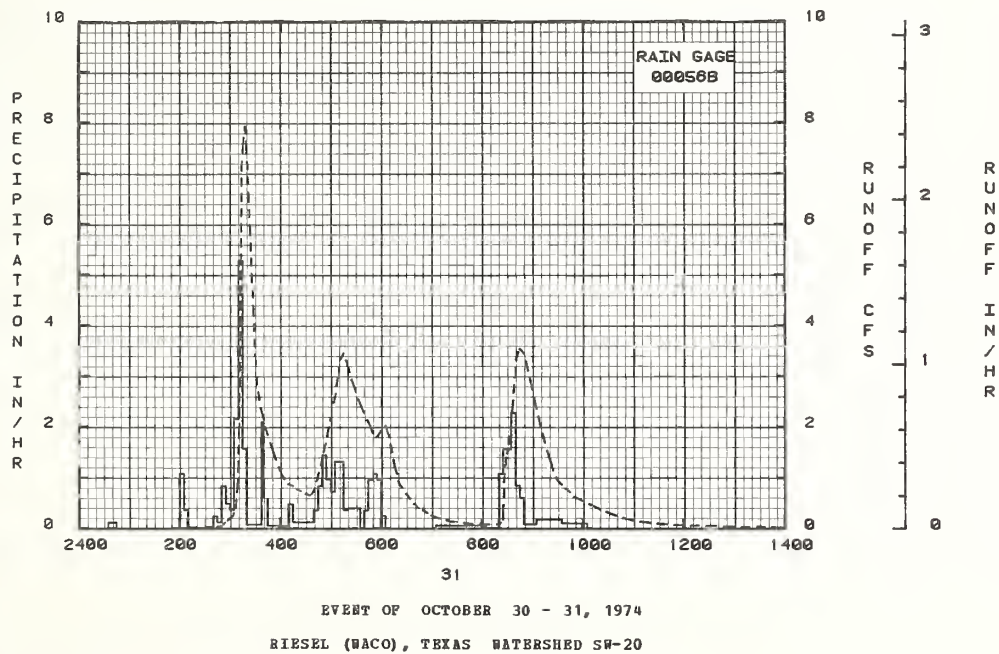
| 1974                                       | SELECTED RUNOFF EVENT |          |          | NIESEL (WACO), TEXAS WATERSHED SW-20 |           |          |        |        |       |          |  |
|--|-----------------------|----------|----------|--------------------------------------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                      |                       |          | RAINFALL |                                      |           | RUNOFF   |        |        |       |          |  |
| Date                                       | Rainfall              | Runoff   | Date     | Time                                 | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day                                     | (inches)              | (inches) | Mo-Day   | of Day                               | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |          |          |                                      |           |          |        |        |       |          |  |
|  |                       |          | 10-31    | 520                                  | 0.3600    | 1.92     | 10-31  | 330    | 3.371 | 0.6301   |  |
|  |                       |          |          | 535                                  | 0.4000    | 2.02     |        | 332    | 2.831 | 0.6600   |  |
|  |                       |          |          | 540                                  | 0.0       | 2.02     |        | 335    | 2.522 | 0.7020   |  |
|  |                       |          |          | 545                                  | 0.3600    | 2.05     |        | 340    | 2.139 | 0.7611   |  |
|  |                       |          |          | 550                                  | 0.9600    | 2.13     |        | 345    | 1.833 | 0.8138   |  |
|  |                       |          |          | 555                                  | 1.0800    | 2.22     |        | 350    | 1.593 | 0.8572   |  |
|  |                       |          |          | 600                                  | 0.9600    | 2.30     |        | 355    | 1.335 | 0.8943   |  |
|  |                       |          |          | 605                                  | 0.2399    | 2.32     |        | 400    | 1.143 | 0.9272   |  |
|  |                       |          |          | 705                                  | 0.0       | 2.32     |        | 405    | 0.962 | 0.9539   |  |
|  |                       |          |          | 805                                  | 0.0600    | 2.38     |        | 410    | 0.866 | 0.9770   |  |
|  |                       |          |          | 820                                  | 0.0       | 2.38     |        | 415    | 0.830 | 0.9995   |  |
|  |                       |          |          | 825                                  | 1.0800    | 2.47     |        | 420    | 0.775 | 1.0199   |  |
|  |                       |          |          | 830                                  | 1.5601    | 2.60     |        | 425    | 0.730 | 1.0390   |  |
|  |                       |          |          | 835                                  | 1.5599    | 2.73     |        | 430    | 0.675 | 1.0576   |  |
|  |                       |          |          | 840                                  | 2.2800    | 2.92     |        | 435    | 0.654 | 1.0744   |  |
|  |                       |          |          | 845                                  | 0.8401    | 2.99     |        | 438    | 0.691 | 1.0850   |  |
|  |                       |          |          | 850                                  | 0.5999    | 3.04     |        | 441    | 0.786 | 1.0957   |  |
|  |                       |          |          | 905                                  | 0.0800    | 3.06     |        | 444    | 0.962 | 1.1094   |  |
|  |                       |          |          | 935                                  | 0.1800    | 3.15     |        | 446    | 1.111 | 1.1207   |  |
|  |                       |          |          | 1005                                 | 0.1000    | 3.20     |        | 448    | 1.246 | 1.1320   |  |
|  |                       |          |          |                                      |           |          |        | 450    | 1.366 | 1.1462   |  |
|  |                       |          |          |                                      |           |          |        | 452    | 1.507 | 1.1601   |  |
|  |                       |          |          |                                      |           |          |        | 454    | 1.677 | 1.1774   |  |
|  |                       |          |          |                                      |           |          |        | 456    | 1.847 | 1.1944   |  |
|  |                       |          |          |                                      |           |          |        | 458    | 1.993 | 1.2152   |  |
|  |                       |          |          |                                      |           |          |        | 500    | 2.164 | 1.2378   |  |
|  |                       |          |          |                                      |           |          |        | 502    | 2.337 | 1.2595   |  |
|  |                       |          |          |                                      |           |          |        | 504    | 2.496 | 1.2858   |  |
|  |                       |          |          |                                      |           |          |        | 506    | 2.661 | 1.3107   |  |
|  |                       |          |          |                                      |           |          |        | 508    | 2.932 | 1.3411   |  |
|  |                       |          |          |                                      |           |          |        | 510    | 3.197 | 1.3707   |  |
|  |                       |          |          |                                      |           |          |        | 512    | 3.364 | 1.4063   |  |
|  |                       |          |          |                                      |           |          |        | 515    | 3.450 | 1.4597   |  |
|  |                       |          |          |                                      |           |          |        | 520    | 3.222 | 1.5443   |  |
|  |                       |          |          |                                      |           |          |        | 525    | 2.920 | 1.6221   |  |
|  |                       |          |          |                                      |           |          |        | 530    | 2.677 | 1.6964   |  |
|  |                       |          |          |                                      |           |          |        | 535    | 2.444 | 1.7613   |  |
|  |                       |          |          |                                      |           |          |        | 540    | 2.267 | 1.8210   |  |
|  |                       |          |          |                                      |           |          |        | 545    | 2.087 | 1.8788   |  |
|  |                       |          |          |                                      |           |          |        | 550    | 1.874 | 1.9290   |  |
|  |                       |          |          |                                      |           |          |        | 555    | 1.798 | 1.9755   |  |
|  |                       |          |          |                                      |           |          |        | 600    | 1.933 | 2.0251   |  |
|  |                       |          |          |                                      |           |          |        | 605    | 2.016 | 2.0751   |  |
|  |                       |          |          |                                      |           |          |        | 610    | 1.793 | 2.1234   |  |
|  |                       |          |          |                                      |           |          |        | 613    | 1.491 | 2.1491   |  |
|  |                       |          |          |                                      |           |          |        | 616    | 1.242 | 2.1706   |  |
|  |                       |          |          |                                      |           |          |        | 619    | 1.070 | 2.1887   |  |
|  |                       |          |          |                                      |           |          |        | 622    | 0.863 | 2.2027   |  |
|  |                       |          |          |                                      |           |          |        | 625    | 0.804 | 2.2158   |  |
|  |                       |          |          |                                      |           |          |        | 630    | 0.675 | 2.2354   |  |
|  |                       |          |          |                                      |           |          |        | 635    | 0.578 | 2.2513   |  |
|  |                       |          |          |                                      |           |          |        | 640    | 0.479 | 2.2647   |  |
|  |                       |          |          |                                      |           |          |        | 645    | 0.405 | 2.2764   |  |
|  |                       |          |          |                                      |           |          |        | 650    | 0.355 | 2.2860   |  |
|  |                       |          |          |                                      |           |          |        | 655    | 0.295 | 2.2943   |  |
|  |                       |          |          |                                      |           |          |        | 700    | 0.253 | 2.3015   |  |
|  |                       |          |          |                                      |           |          |        | 710    | 0.195 | 2.3129   |  |
|  |                       |          |          |                                      |           |          |        | 720    | 0.154 | 2.3220   |  |
|  |                       |          |          |                                      |           |          |        | 730    | 0.121 | 2.3291   |  |
|  |                       |          |          |                                      |           |          |        | 740    | 0.096 | 2.3346   |  |
|  |                       |          |          |                                      |           |          |        | 800    | 0.077 | 2.3436   |  |
|  |                       |          |          |                                      |           |          |        | 820    | 0.077 | 2.3515   |  |
|  |                       |          |          |                                      |           |          |        | 823    | 0.115 | 2.3530   |  |
|  |                       |          |          |                                      |           |          |        | 825    | 0.178 | 2.3544   |  |
|  |                       |          |          |                                      |           |          |        | 826    | 0.467 | 2.3559   |  |
|  |                       |          |          |                                      |           |          |        | 827    | 1.094 | 2.3606   |  |
|  |                       |          |          |                                      |           |          |        | 828    | 1.264 | 2.3663   |  |
|  |                       |          |          |                                      |           |          |        | 829    | 1.396 | 2.3728   |  |
|  |                       |          |          |                                      |           |          |        | 830    | 1.475 | 2.3814   |  |
|  |                       |          |          |                                      |           |          |        | 831    | 1.535 | 2.3887   |  |
|  |                       |          |          |                                      |           |          |        | 832    | 1.668 | 2.3964   |  |
|  |                       |          |          |                                      |           |          |        | 833    | 1.811 | 2.4048   |  |
|  |                       |          |          |                                      |           |          |        | 834    | 1.951 | 2.4162   |  |
|  |                       |          |          |                                      |           |          |        | 835    | 2.120 | 2.4260   |  |
|  |                       |          |          |                                      |           |          |        | 837    | 2.533 | 2.4485   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.



| 1974                                       | SELECTED RUNOFF EVENT |          |          | RIESEL (WACO), TEXAS |           |          | WATERSHED SW-20 |        |       |          |
|--|-----------------------|----------|----------|----------------------|-----------|----------|-----------------|--------|-------|----------|
| ANTECEDENT CONDITIONS                      |                       |          | RAINFALL |                      |           | RUNOFF   |                 |        |       |          |
| Date                                       | Rainfall              | Runoff   | Date     | Time                 | Intensity | Acc.     | Date            | Time   | Rate  | Acc.     |
| Mo-Day                                     | (inches)              | (inches) | Mo-Day   | of Day               | (in/hr)   | (inches) | Mo-Day          | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |          |          |                      |           |          |                 |        |       |          |
|  |                       |          |          | 10-31                |           |          |                 | 839    | 3.018 | 2.4786   |
|  |                       |          |          |                      |           |          |                 | 841    | 3.364 | 2.5094   |
|  |                       |          |          |                      |           |          |                 | 843    | 3.483 | 2.5466   |
|  |                       |          |          |                      |           |          |                 | 845    | 3.537 | 2.5847   |
|  |                       |          |          |                      |           |          |                 | 850    | 3.437 | 2.6731   |
|  |                       |          |          |                      |           |          |                 | 855    | 3.099 | 2.7559   |
|  |                       |          |          |                      |           |          |                 | 900    | 2.731 | 2.8333   |
|  |                       |          |          |                      |           |          |                 | 905    | 2.347 | 2.8976   |
|  |                       |          |          |                      |           |          |                 | 910    | 2.011 | 2.9529   |
|  |                       |          |          |                      |           |          |                 | 915    | 1.681 | 3.0019   |
|  |                       |          |          |                      |           |          |                 | 920    | 1.396 | 3.0409   |
|  |                       |          |          |                      |           |          |                 | 925    | 1.143 | 3.0730   |
|  |                       |          |          |                      |           |          |                 | 930    | 0.943 | 3.1007   |
|  |                       |          |          |                      |           |          |                 | 935    | 0.857 | 3.1235   |
|  |                       |          |          |                      |           |          |                 | 940    | 0.780 | 3.1443   |
|  |                       |          |          |                      |           |          |                 | 945    | 0.710 | 3.1641   |
|  |                       |          |          |                      |           |          |                 | 950    | 0.623 | 3.1810   |
|  |                       |          |          |                      |           |          |                 | 1000   | 0.543 | 3.2112   |
|  |                       |          |          |                      |           |          |                 | 1010   | 0.462 | 3.2367   |
|  |                       |          |          |                      |           |          |                 | 1020   | 0.385 | 3.2587   |
|  |                       |          |          |                      |           |          |                 | 1030   | 0.307 | 3.2766   |
|  |                       |          |          |                      |           |          |                 | 1040   | 0.246 | 3.2906   |
|  |                       |          |          |                      |           |          |                 | 1050   | 0.198 | 3.3022   |
|  |                       |          |          |                      |           |          |                 | 1100   | 0.158 | 3.3114   |
|  |                       |          |          |                      |           |          |                 | 1120   | 0.109 | 3.3251   |
|  |                       |          |          |                      |           |          |                 | 1140   | 0.082 | 3.3349   |
|  |                       |          |          |                      |           |          |                 | 1200   | 0.058 | 3.3421   |
|  |                       |          |          |                      |           |          |                 | 1230   | 0.046 | 3.3502   |
|  |                       |          |          |                      |           |          |                 | 1300   | 0.028 | 3.3559   |
|  |                       |          |          |                      |           |          |                 | 1400   | 0.015 | 3.3625   |
|  |                       |          |          |                      |           |          |                 | 1500   | 0.009 | 3.3662   |
|  |                       |          |          |                      |           |          |                 | 1800   | 0.002 | 3.3713   |
|  |                       |          |          |                      |           |          |                 | 2100   | 0.0   | 3.3723   |
|  |                       |          |          |                      |           |          |                 | 2400   | 0.0   | 3.3723   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.



LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 36 sec. N.;  
Long. 96 deg. 52 min. 39 sec. W.

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |             |       |             | RIESEL (WACO), TEXAS WATERSHED Y-13 |   |       |             |       |             |       |              |       |
|---|---|-------------------|-------|-------------|-------|-------------|-------------------------------------|---|-------|-------------|-------|-------------|-------|--------------|-------|
|   |   | Jan               | Feb   | Mar         | Apr   | May         | Jun                                 | Jul                                       | Aug   | Sep         | Oct   | Nov         | Dec   | Annual       |       |
| 1974  | P | 2.19              | 1.05  | 1.69        | 3.96  | 1.97        | 0.53                                | 1.07                                      | 6.25  | 8.31        | 6.87  | 4.26        | 1.74  | 39.89        |       |
|   | Q | 0.009             | 0.005 | 0.0         | 0.099 | 0.0         | 0.0                                 | 0.0                                       | 0.0   | 2.525       | 2.370 | 1.233       | 0.011 | 6.250        |       |
| STA AV  | P | 1.88              | 2.08  | 2.76        | 3.53  | 2.47        | 2.27                                | 2.93                                      | 2.88  | 4.14        | 5.79  | 2.49        | 2.77  | 35.97        |       |
|   | Q | 0.135             | 0.164 | 0.898       | 0.553 | 0.267       | 0.667                               | 0.094                                     | 0.020 | 0.421       | 0.647 | 0.219       | 0.100 | 4.185        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |             |       |             |                                     |   |       |             |       |             |       |              |       |
|   |   | Maximum Discharge |       | 1 Hour      |       | 2 Hours     |                                     | Maximum Volume for Selected Time Interval |       | 1 Day       |       | 2 Days      |       | 8 Days       |       |
|   |   | Date              | Rate  | Date        | Vol.  | Date        | Vol.                                | Date                                      | Vol.  | Date        | Vol.  | Date        | Vol.  | Date         | Vol.  |
| 1974  |   | 10-31             | 1.263 | 10-31       | 0.736 | 10-31       | 1.108                               | 10-31                                     | 2.129 | 10-31       | 2.355 | 10-30       | 2.368 | 10-30        | 2.376 |
|   |   |                   |       |             |       |             |                                     |   |       |             |       |             |       | 9-12         | 2.525 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |             |       |             |                                     |   |       |             |       |             |       |              |       |
|   |   | 6-3<br>1973       | 3.936 | 6-3<br>1973 | 2.319 | 6-3<br>1973 | 2.558                               | 6-3<br>1973                               | 2.597 | 6-3<br>1973 | 2.599 | 6-3<br>1973 | 2.599 | 6-1<br>1973  | 3.212 |
|   |   |                   |       |             |       |             |                                     |   |       |             |       |             |       | 5-29<br>1973 | 3.974 |

| RIESEL (WACO), TEXAS WATERSHED Y-13 |      |       |       |       |       |       |      |       |       |       |      |      |       |
|-------------------------------------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|-------|
| DAILY PRECIPITATION (iuches)        |      |       |       |       |       |       |      |       |       |       |      |      |       |
| 1974                                | Day  | Jau   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov  | Dec   |
|                                     | 1    | 0.01E | 0.0   | 0.0   | 0.0   | 1.11  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 2    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 3    | 0.03E | 0.0   | 0.0   | 0.0   | 0.04E | 0.0  | 0.0   | 0.08E | 0.71  | 0.0  | 0.0  | 0.0   |
|                                     | 4    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.35 | 0.0   |
|                                     | 5    | 0.0   | 0.0   | 0.0   | 0.0   | 0.66  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.16E |
|                                     | 6    | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 7    | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.71 | 0.0   |
|                                     | 8    | 0.08E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.26  | 0.0   | 0.0  | 0.04 | 0.0   |
|                                     | 9    | 0.08E | 0.0   | 0.05E | 0.0   | 0.0   | 0.30 | 0.0   | 0.0   | 0.53  | 0.0  | 0.09 | 0.0   |
|                                     | 10   | 0.09E | 0.0   | 0.30  | 0.0   | 0.16  | 0.0  | 0.0   | 0.0   | 0.83  | 0.0  | 0.41 | 0.71  |
|                                     | 11   | 0.0   | 0.0   | 0.13  | 1.02  | 0.0   | 0.0  | 0.10E | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 12   | 0.0   | 0.0   | 0.14  | 0.0   | 0.0   | 0.23 | 0.0   | 0.0   | 0.42  | 0.0  | 0.0  | 0.0   |
|                                     | 13   | 0.05E | 0.0   | 0.0   | 2.15  | 0.0   | 0.0  | 0.0   | 0.0   | 1.18  | 0.0  | 0.0  | 0.0   |
|                                     | 14   | 0.0   | 0.04E | 0.32  | 0.0   | 0.0   | 0.0  | 0.21  | 0.0   | 0.46  | 0.84 | 0.0  | 0.0   |
|                                     | 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.04E | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.03E | 0.0   | 0.66  | 0.0  | 0.0  | 0.0   |
|                                     | 17   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 2.89  | 0.0  | 0.0  | 0.0   |
|                                     | 18   | 0.50  | 0.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 20   | 0.0   | 0.0   | 0.49  | 0.01E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 21   | 0.0   | 0.85  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.22E | 0.0  | 0.0  | 0.0   |
|                                     | 22   | 0.0   | 0.0   | 0.0   | 0.43  | 0.0   | 0.0  | 0.0   | 0.83  | 0.0   | 0.0  | 0.0  | 0.0   |
|                                     | 23   | 0.31  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.03 | 0.0   |
|                                     | 24   | 0.27  | 0.0   | 0.26  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.11  | 0.14 | 0.28 | 0.33  |
|                                     | 25   | 0.48  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.25  | 0.0  | 0.0  | 0.0   |
|                                     | 26   | 0.27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.14E | 2.20  | 0.05E | 0.0  | 0.0  | 0.11E |
|                                     | 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.13  | 0.0   | 0.0  | 0.0  | 0.04E |
|                                     | 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.06  | 0.0   | 0.81 | 0.0  | 0.05E |
|                                     | 29   | 0.0   | 0.0   | 0.0   | 0.10E | 0.0   | 0.0  | 0.0   | 0.66  | 0.0   | 0.0  | 0.35 | 0.05E |
|                                     | 30   | 0.0   | 0.0   | 0.0   | 0.25  | 0.0   | 0.0  | 0.0   | 1.03  | 0.0   | 1.53 | 0.0  | 0.06E |
|                                     | 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.55  | 0.0   | 0.0   | 3.55 | 0.0  | 0.23E |
| TOTAL                               | 2.19 | 1.05  | 1.69  | 3.96  | 1.97  | 0.53  | 1.07 | 6.25  | 8.31  | 6.87  | 4.26 | 1.74 |       |
| STA AV                              | 1.88 | 2.08  | 2.76  | 3.53  | 2.47  | 2.27  | 2.93 | 2.88  | 4.14  | 5.79  | 2.49 | 2.77 |       |

Cooperative Research Project of USDA and Texas Agricultural Experiment Station

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-13 |        |        |       |        |       |       |       |       |        |        |        |        |
|---|--------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar   | Apr    | May   | Jun   | Jul   | Aug   | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.003  | 0.0    |
| 2   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0    |
| 3   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 4   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0    |
| 5   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 6   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 7   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.047  | 0.0    |
| 8   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.006  | 0.0    |
| 9   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001  | 0.0    |
| 10  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.105  | 0.005  |
| 11  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0 T  |
| 12  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 13  | 0.0    | 0.0    | 0.0   | 0.019  | 0.0   | 0.0   | 0.0   | 0.0   | 0.072  | 0.0    | 0.0    | 0.0    |
| 14  | 0.0    | 0.0    | 0.0   | 0.028  | 0.0   | 0.0   | 0.0   | 0.0   | 0.081  | 0.0    | 0.0    | 0.0    |
| 15  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.009  | 0.0    | 0.0    | 0.0    |
| 16  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0    |
| 17  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.736  | 0.0    | 0.0    | 0.0    |
| 18  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.273  | 0.0    | 0.0    | 0.0    |
| 19  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.025  | 0.0    | 0.0    | 0.0    |
| 20  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.002  | 0.0    | 0.0    | 0.0    |
| 21  | 0.0    | 0.002  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 22  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 23  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.304  | 0.0    |
| 24  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.115  | 0.0    |
| 25  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 26  | 0.002  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 27  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 28  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 29  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 30  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.003  | 0.0    | 0.0    |
| 31  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 1.122  | 0.0    | 0.0    |
| MEAN  | 0.0001 | 0.0001 | 0.0   | 0.0016 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0400 | 0.0363 | 0.0195 | 0.0002 |
| INCHES  | 0.009  | 0.005  | 0.0   | 0.099  | 0.0   | 0.0   | 0.0   | 0.0   | 2.525  | 2.370  | 1.233  | 0.011  |
| STA AV  | 0.135  | 0.164  | 0.898 | 0.553  | 0.267 | 0.667 | 0.094 | 0.020 | 0.421  | 0.647  | 0.219  | 0.100  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began January 1, 1969.  
STA AV based on 6 yr (1969-74) record period.

| 1974 SELECTED RUNOFF EVENT  |          |          | HIESEL (WACO), TEXAS WATERSHED Y-13 |        |           |          |        |        |       |          |
|-----------------------------|----------|----------|-------------------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS       |          |          | RAINFALL                            |        |           |          | RUNOFF |        |       |          |
| Date                        | Rainfall | Runoff   | Date                                | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                      | (inches) | (inches) | Mo-Day                              | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 31, 1974   |          |          |                                     |        |           |          |        |        |       |          |
| HG 00070A                   |          |          | HG 00070A                           |        |           |          |        |        |       |          |
| 10-31                       | 0.0      | 0.0      | 10-31                               | 35     | 0.0       | 0.0      | 10-31  | 311    | 0.0   | 0.0      |
|                             |          |          |                                     | 55     | 0.0900    | 0.03     |        | 312    | 0.0   | 0.0      |
|                             |          |          |                                     | 200    | 0.0       | 0.03     |        | 313    | 0.001 | 0.0      |
|                             |          |          |                                     | 205    | 0.4801    | 0.07     |        | 314    | 0.006 | 0.0      |
|                             |          |          |                                     | 215    | 0.1800    | 0.10     |        | 315    | 0.015 | 0.0      |
| WATERSHED CONDITIONS:       |          |          |                                     |        |           |          |        |        |       |          |
| 96% oats; 4% Bermuda-       |          |          |                                     | 235    | 0.0       | 0.10     |        | 316    | 0.038 | 0.0      |
| grass waterway, good cover. |          |          |                                     | 245    | 0.0600    | 0.11     |        | 317    | 0.090 | 0.0001   |
|                             |          |          |                                     | 255    | 0.3000    | 0.16     |        | 318    | 0.162 | 0.0003   |
|                             |          |          |                                     | 305    | 0.3000    | 0.21     |        | 319    | 0.222 | 0.0006   |
|                             |          |          |                                     | 310    | 2.4000    | 0.41     |        | 320    | 0.316 | 0.0010   |
|                             |          |          |                                     | 315    | 5.5201    | 0.87     |        | 321    | 0.371 | 0.0014   |
|                             |          |          |                                     | 320    | 2.2798    | 1.06     |        | 322    | 0.427 | 0.0020   |
|                             |          |          |                                     | 335    | 0.0400    | 1.07     |        | 323    | 0.479 | 0.0028   |
|                             |          |          |                                     | 340    | 0.6000    | 1.12     |        | 324    | 0.554 | 0.0035   |
|                             |          |          |                                     | 355    | 0.0       | 1.12     |        | 325    | 5.645 | 0.0077   |
|                             |          |          |                                     | 400    | 0.2399    | 1.14     |        | 326    | 7.329 | 0.0166   |
|                             |          |          |                                     | 405    | 0.6000    | 1.19     |        | 327    | 7.987 | 0.0297   |
|                             |          |          |                                     | 410    | 0.9600    | 1.27     |        | 328    | 8.734 | 0.0412   |
|                             |          |          |                                     | 415    | 2.0400    | 1.44     |        | 329    | 9.323 | 0.0536   |
|                             |          |          |                                     | 425    | 0.3000    | 1.49     |        | 330    | 9.380 | 0.0696   |
|                             |          |          |                                     | 435    | 0.3600    | 1.55     |        | 332    | 9.096 | 0.0950   |
|                             |          |          |                                     | 445    | 0.1800    | 1.58     |        | 334    | 8.091 | 0.1215   |
|                             |          |          |                                     | 455    | 0.6000    | 1.68     |        | 336    | 7.704 | 0.1431   |
|                             |          |          |                                     | 505    | 0.9599    | 1.84     |        | 338    | 6.942 | 0.1657   |
|                             |          |          |                                     | 515    | 1.3200    | 2.06     |        | 340    | 6.250 | 0.1838   |
|                             |          |          |                                     | 525    | 0.7201    | 2.18     |        | 342    | 5.708 | 0.2023   |
|                             |          |          |                                     | 535    | 0.7799    | 2.31     |        | 344    | 5.176 | 0.2172   |
|                             |          |          |                                     | 545    | 0.3601    | 2.37     |        | 346    | 4.846 | 0.2327   |
|                             |          |          |                                     | 555    | 1.0200    | 2.54     |        | 348    | 4.456 | 0.2454   |
|                             |          |          |                                     | 605    | 0.3600    | 2.60     |        | 350    | 4.138 | 0.2587   |

NOTES: To convert runoff in CFS to IN/HH, multiply by .087764.

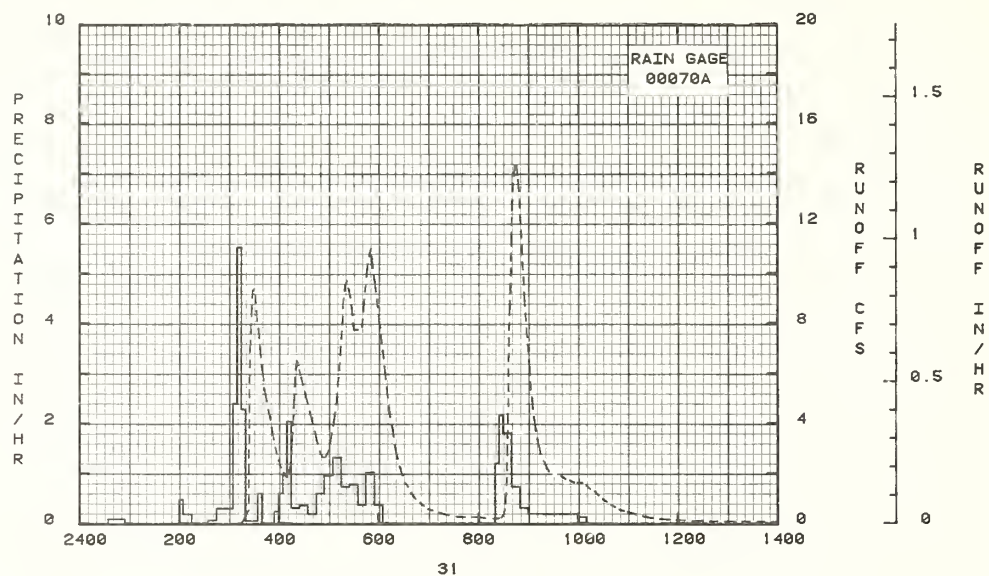
| 1974                                  | SELECTED RUNOFF EVENT |                    |                | RIESEL (WACO), TEXAS WATERSHED Y-13 |                      |                  |                |                |               |                  |  |
|---------------------------------------|-----------------------|--------------------|----------------|-------------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|--|
| ANTECEDENT CONDITIONS                 |                       |                    | RAINFALL       |                                     |                      | RUNOFF           |                |                |               |                  |  |
| Date<br>Mo-Day                        | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                      | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |  |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |                       |                    |                |                                     |                      |                  |                |                |               |                  |  |
| 10-31                                 |                       |                    |                | 820                                 | 0.0                  | 2.60             | 10-31          | 352            | 3.851         | 0.2696           |  |
|                                       |                       |                    |                | 825                                 | 1.1999               | 2.70             |                | 354            | 3.340         | 0.2807           |  |
|                                       |                       |                    |                | 830                                 | 2.1601               | 2.88             |                | 356            | 3.046         | 0.2895           |  |
|                                       |                       |                    |                | 835                                 | 1.7999               | 3.03             |                | 358            | 2.794         | 0.2985           |  |
|                                       |                       |                    |                | 840                                 | 1.8001               | 3.18             |                | 400            | 2.519         | 0.3067           |  |
|                                       |                       |                    |                | 850                                 | 0.7200               | 3.30             |                | 403            | 2.226         | 0.3164           |  |
|                                       |                       |                    |                | 900                                 | 0.3000               | 3.35             |                | 406            | 2.018         | 0.3259           |  |
|                                       |                       |                    |                | 920                                 | 0.1800               | 3.41             |                | 410            | 1.853         | 0.3372           |  |
|                                       |                       |                    |                | 940                                 | 0.1800               | 3.47             |                | 413            | 2.029         | 0.3458           |  |
|                                       |                       |                    |                | 1000                                | 0.1800               | 3.53             |                | 415            | 2.519         | 0.3528           |  |
|                                       |                       |                    |                | 1010                                | 0.1200               | 3.55             |                | 416            | 3.060         | 0.3567           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 417            | 3.641         | 0.3613           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 418            | 4.331         | 0.3667           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 419            | 5.176         | 0.3749           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 420            | 5.857         | 0.3824           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 421            | 6.273         | 0.3908           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 422            | 6.522         | 0.3995           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 423            | 6.430         | 0.4106           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 424            | 6.318         | 0.4194           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 425            | 6.140         | 0.4279           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 426            | 5.943         | 0.4362           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 427            | 5.836         | 0.4463           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 429            | 5.541         | 0.4619           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 432            | 5.216         | 0.4859           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 435            | 4.770         | 0.5081           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 438            | 4.367         | 0.5285           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 441            | 3.985         | 0.5456           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 444            | 3.593         | 0.5625           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 447            | 3.184         | 0.5776           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 450            | 2.833         | 0.5910           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 453            | 2.654         | 0.6033           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 456            | 2.667         | 0.6142           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 500            | 2.925         | 0.6315           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 502            | 3.269         | 0.6400           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 504            | 3.625         | 0.6506           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 506            | 4.053         | 0.6611           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 508            | 4.456         | 0.6743           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 510            | 4.923         | 0.6871           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 512            | 5.836         | 0.7037           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 514            | 6.800         | 0.7210           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 516            | 7.704         | 0.7434           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 518            | 9.012         | 0.7663           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 520            | 9.524         | 0.7949           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 522            | 9.699         | 0.8213           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 524            | 9.323         | 0.8506           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 526            | 9.012         | 0.8758           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 528            | 8.598         | 0.9029           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 530            | 7.730         | 0.9281           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 535            | 7.730         | 0.9838           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 540            | 7.883         | 1.0400           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 543            | 8.956         | 1.0775           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 546            | 10.084        | 1.1199           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 549            | 10.758        | 1.1664           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 551            | 10.978        | 1.1962           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 553            | 10.175        | 1.2288           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 555            | 9.728         | 1.2561           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 557            | 9.237         | 1.2854           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 559            | 8.625         | 1.3099           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 602            | 7.806         | 1.3465           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 605            | 6.894         | 1.3792           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 608            | 6.052         | 1.4081           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 611            | 5.019         | 1.4309           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 614            | 4.225         | 1.4515           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 617            | 3.737         | 1.4692           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 620            | 3.033         | 1.4843           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 623            | 2.568         | 1.4968           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 626            | 2.215         | 1.5066           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 629            | 1.904         | 1.5158           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 632            | 1.629         | 1.5237           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 635            | 1.493         | 1.5306           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 640            | 1.194         | 1.5403           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 645            | 0.962         | 1.5484           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 650            | 0.819         | 1.5548           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 655            | 0.695         | 1.5603           |  |
|                                       |                       |                    |                |                                     |                      |                  |                | 700            | 0.569         | 1.5650           |  |

NOTES: To convert runoff in CPS to IN/HR, multiply by .087764.

| 1974 SELECTED RUNOFF EVENT            |                      |                    | RIESEL (WACO), TEXAS WATERSHED Y-13 |                |                      |                  |                |                |               |                  |
|---------------------------------------|----------------------|--------------------|-------------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                 |                      |                    | RAINFALL                            |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                        | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |                      |                    |                                     |                |                      |                  |                |                |               |                  |
|                                       |                      |                    |                                     |                |                      |                  | 10-31          | 705            | 0.511         | 1.5689           |
|                                       |                      |                    |                                     |                |                      |                  |                | 715            | 0.407         | 1.5757           |
|                                       |                      |                    |                                     |                |                      |                  |                | 725            | 0.316         | 1.5809           |
|                                       |                      |                    |                                     |                |                      |                  |                | 735            | 0.270         | 1.5852           |
|                                       |                      |                    |                                     |                |                      |                  |                | 800            | 0.242         | 1.5946           |
|                                       |                      |                    |                                     |                |                      |                  |                | 820            | 0.184         | 1.6008           |
|                                       |                      |                    |                                     |                |                      |                  |                | 825            | 0.199         | 1.6022           |
|                                       |                      |                    |                                     |                |                      |                  |                | 828            | 0.245         | 1.6032           |
|                                       |                      |                    |                                     |                |                      |                  |                | 830            | 0.320         | 1.6041           |
|                                       |                      |                    |                                     |                |                      |                  |                | 831            | 0.440         | 1.6046           |
|                                       |                      |                    |                                     |                |                      |                  |                | 832            | 0.574         | 1.6053           |
|                                       |                      |                    |                                     |                |                      |                  |                | 833            | 0.795         | 1.6062           |
|                                       |                      |                    |                                     |                |                      |                  |                | 834            | 1.233         | 1.6079           |
|                                       |                      |                    |                                     |                |                      |                  |                | 835            | 2.833         | 1.6107           |
|                                       |                      |                    |                                     |                |                      |                  |                | 836            | 4.104         | 1.6155           |
|                                       |                      |                    |                                     |                |                      |                  |                | 837            | 7.428         | 1.6234           |
|                                       |                      |                    |                                     |                |                      |                  |                | 838            | 8.598         | 1.6371           |
|                                       |                      |                    |                                     |                |                      |                  |                | 839            | 9.611         | 1.6496           |
|                                       |                      |                    |                                     |                |                      |                  |                | 840            | 11.623        | 1.6642           |
|                                       |                      |                    |                                     |                |                      |                  |                | 841            | 12.945        | 1.6810           |
|                                       |                      |                    |                                     |                |                      |                  |                | 842            | 13.586        | 1.7038           |
|                                       |                      |                    |                                     |                |                      |                  |                | 843            | 13.950        | 1.7226           |
|                                       |                      |                    |                                     |                |                      |                  |                | 844            | 14.357        | 1.7420           |
|                                       |                      |                    |                                     |                |                      |                  |                | 846            | 14.395        | 1.7864           |
|                                       |                      |                    |                                     |                |                      |                  |                | 847            | 13.913        | 1.8058           |
|                                       |                      |                    |                                     |                |                      |                  |                | 848            | 13.731        | 1.8248           |
|                                       |                      |                    |                                     |                |                      |                  |                | 849            | 13.263        | 1.8479           |
|                                       |                      |                    |                                     |                |                      |                  |                | 850            | 12.598        | 1.8656           |
|                                       |                      |                    |                                     |                |                      |                  |                | 853            | 10.727        | 1.9176           |
|                                       |                      |                    |                                     |                |                      |                  |                | 856            | 8.680         | 1.9575           |
|                                       |                      |                    |                                     |                |                      |                  |                | 859            | 7.428         | 1.9934           |
|                                       |                      |                    |                                     |                |                      |                  |                | 902            | 5.943         | 2.0232           |
|                                       |                      |                    |                                     |                |                      |                  |                | 905            | 4.846         | 2.0473           |
|                                       |                      |                    |                                     |                |                      |                  |                | 908            | 3.968         | 2.0669           |
|                                       |                      |                    |                                     |                |                      |                  |                | 911            | 3.369         | 2.0820           |
|                                       |                      |                    |                                     |                |                      |                  |                | 915            | 2.794         | 2.1010           |
|                                       |                      |                    |                                     |                |                      |                  |                | 920            | 2.364         | 2.1196           |
|                                       |                      |                    |                                     |                |                      |                  |                | 925            | 2.072         | 2.1355           |
|                                       |                      |                    |                                     |                |                      |                  |                | 930            | 1.987         | 2.1508           |
|                                       |                      |                    |                                     |                |                      |                  |                | 935            | 1.945         | 2.1650           |
|                                       |                      |                    |                                     |                |                      |                  |                | 940            | 1.893         | 2.1788           |
|                                       |                      |                    |                                     |                |                      |                  |                | 945            | 1.763         | 2.1926           |
|                                       |                      |                    |                                     |                |                      |                  |                | 950            | 1.705         | 2.2051           |
|                                       |                      |                    |                                     |                |                      |                  |                | 955            | 1.620         | 2.2171           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1000           | 1.611         | 2.2292           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1005           | 1.620         | 2.2409           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1010           | 1.511         | 2.2521           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1015           | 1.364         | 2.2630           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1020           | 1.257         | 2.2724           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1025           | 1.111         | 2.2809           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1030           | 0.968         | 2.2888           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1035           | 0.838         | 2.2953           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1040           | 0.730         | 2.3009           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1045           | 0.636         | 2.3061           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1050           | 0.544         | 2.3103           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1055           | 0.484         | 2.3140           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1100           | 0.440         | 2.3175           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1110           | 0.349         | 2.3232           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1120           | 0.273         | 2.3278           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1130           | 0.202         | 2.3313           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1140           | 0.169         | 2.3339           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1150           | 0.143         | 2.3362           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1200           | 0.118         | 2.3382           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1230           | 0.078         | 2.3425           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1300           | 0.073         | 2.3458           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1400           | 0.047         | 2.3510           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1600           | 0.020         | 2.3569           |
|                                       |                      |                    |                                     |                |                      |                  |                | 1800           | 0.010         | 2.3596           |
|                                       |                      |                    |                                     |                |                      |                  |                | 2400           | 0.005         | 2.3635           |

NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.





EVENT OF OCTOBER 31, 1974  
RIESEL (WACO), TEXAS WATERSHED Y-13

RIESEL (WACO), TEXAS WATERSHED Y-14

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 11 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 5.60 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                               |       |        |       |         | RIESEL (WACO), TEXAS WATERSHED Y-14 |   |       |       |       |       |       |        |       |
|---|---|-------------------------------|-------|--------|-------|---------|-------------------------------------|---|-------|-------|-------|-------|-------|--------|-------|
|   |   | Jan                           | Feb   | Mar    | Apr   | May     | Jun                                 | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |
| 1974  | P | 2.07                          | 1.04  | 1.57   | 3.66  | 2.12    | 0.47                                | 1.09                                      | 6.94  | 8.57  | 6.88  | 4.33  | 1.60  | 40.34  |       |
|   | Q | 0.026                         | 0.002 | 0.0    | 0.869 | 0.023   | 0.0                                 | 0.0                                       | 0.302 | 3.486 | 3.418 | 1.230 | 0.003 | 9.360  |       |
| STA AV  | P | 1.83                          | 2.03  | 2.77   | 3.53  | 2.57    | 2.47                                | 2.95                                      | 3.27  | 4.13  | 5.80  | 2.42  | 2.68  | 36.44  |       |
|   | Q | 0.173                         | 0.070 | 0.688  | 0.466 | 0.639   | 0.697                               | 0.507                                     | 0.164 | 0.581 | 1.572 | 0.510 | 0.636 | 6.703  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                               |       |        |       |         |                                     |   |       |       |       |       |       |        |       |
|   |   | Maximum Discharge             |       | 1 Hour |       | 2 Hours |                                     | Maximum Volume for Selected Time Interval |       |       |       |       |       |        |       |
|   |   | Date                          | Rate  | Date   | Vol.  | Date    | Vol.                                | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  |
| 1974  |   | 10-31                         | 2.110 | 9-17   | 1.427 | 9-17    | 1.778                               | 10-31                                     | 2.722 | 10-31 | 3.026 | 10-30 | 3.407 | 10-30  | 3.419 |
|   |   | MAXIMUMS FOR PERIOD OF RECORD |       |        |       |         |                                     |   |       |       |       |       |       |        |       |
|   |   | 11-17                         | 2.886 | 6- 3   | 1.500 | 6- 3    | 2.049                               | 10-31                                     | 2.722 | 10-31 | 3.026 | 10-30 | 3.407 | 10-30  | 4.524 |
|   |   | 1971                          |       | 1973   |       | 1973    |                                     | 1974                                      |       | 1974  |       | 1974  |       | 1974   |       |

NOTES: Watershed conditions: 96% grain sorghum; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.038-5. Precipitation and runoff records began January 1, 1969. Precipitation data from Thiessen weighted method using rain gages 75-A and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |      |       |       |       |      |       |       | RIESEL (WACO), TEXAS WATERSHED Y-14 |  |
|-----------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------------------------------------|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep   | Oct  | Nov   | Dec   |                                     |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 1.27  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.02E | 0.0   |                                     |  |
| 3                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.02E | 0.0  | 0.0   | 0.08E | 0.65  | 0.0  | 0.0   | 0.0   |                                     |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.22  | 0.0   |                                     |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.68  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.15E |                                     |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.78  | 0.0   |                                     |  |
| 8                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.30  | 0.0   | 0.0  | 0.03  | 0.0   |                                     |  |
| 9                                 | 0.01E | 0.0   | 0.03E | 0.0   | 0.0   | 0.27 | 0.0   | 0.0   | 0.40  | 0.0  | 0.06  | 0.0   |                                     |  |
| 10                                | 0.19  | 0.0   | 0.26  | 0.0   | 0.15  | 0.0  | 0.0   | 0.0   | 1.00  | 0.0  | 0.44  | 0.70  |                                     |  |
| 11                                | 0.0   | 0.0   | 0.07E | 1.05  | 0.0   | 0.0  | 0.06E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 12                                | 0.0   | 0.0   | 0.20  | 0.0   | 0.0   | 0.20 | 0.0   | 0.0   | 0.54  | 0.0  | 0.0   | 0.0   |                                     |  |
| 13                                | 0.04E | 0.0   | 0.0   | 1.85  | 0.0   | 0.0  | 0.0   | 0.0   | 1.06  | 0.0  | 0.0   | 0.0   |                                     |  |
| 14                                | 0.0   | 0.05E | 0.30  | 0.0   | 0.0   | 0.0  | 0.18  | 0.0   | 0.59  | 0.86 | 0.0   | 0.0   |                                     |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.07E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.06E | 0.0   | 0.78  | 0.0  | 0.0   | 0.0   |                                     |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 3.12  | 0.0  | 0.0   | 0.0   |                                     |  |
| 18                                | 0.45  | 0.15  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 20                                | 0.0   | 0.0   | 0.44  | 0.01E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 21                                | 0.0   | 0.84  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.10E | 0.0  | 0.0   | 0.0   |                                     |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.42  | 0.0   | 0.0  | 0.0   | 1.48  | 0.0   | 0.0  | 0.0   | 0.0   |                                     |  |
| 23                                | 0.32  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 2.21  | 0.0   |                                     |  |
| 24                                | 0.28  | 0.0   | 0.27  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.09  | 0.14 | 0.23  | 0.27  |                                     |  |
| 25                                | 0.44  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.05E | 0.19  | 0.0  | 0.0   | 0.0   |                                     |  |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.19  | 2.09  | 0.05E | 0.0  | 0.0   | 0.12E |                                     |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.12  | 0.0   | 0.0  | 0.0   | 0.07E |                                     |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 1.01  | 0.0   | 0.81 | 0.0   | 0.04E |                                     |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.11E | 0.0   | 0.0  | 0.0   | 0.74  | 0.0   | 0.0  | 0.34  | 0.04E |                                     |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.22  | 0.0   | 0.0  | 0.0   | 1.07  | 0.0   | 1.61 | 0.0   | 0.09E |                                     |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.53  | 0.0   | 0.0   | 3.46 | 0.0   | 0.12E |                                     |  |
| TOTAL                             | 2.07  | 1.04  | 1.57  | 3.66  | 2.12  | 0.47 | 1.09  | 6.94  | 8.57  | 6.88 | 4.33  | 1.60  |                                     |  |
| STA AV                            | 1.83  | 2.03  | 2.77  | 3.53  | 2.57  | 2.47 | 2.95  | 3.27  | 4.13  | 5.80 | 2.42  | 2.68  |                                     |  |

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A and 89. Records began January 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-14 |        |       |       |        |        |       |       |        |        |        |        |       |
|---|--------|-------|-------|--------|--------|-------|-------|--------|--------|--------|--------|-------|
| Day   | Jan    | Feb   | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec   |
| 1   | 0.0    | 0.0   | 0.0   | 0.0    | 0.005  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.0   |
| 2   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 3   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.011  | 0.0    | 0.0    | 0.0   |
| 4   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 5   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 6   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 7   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0   |
| 8   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 9   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 10  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.012  | 0.0    | 0.017  | 0.001 |
| 11  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0   |
| 12  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 13  | 0.0    | 0.0   | 0.0   | 0.200  | 0.0    | 0.0   | 0.0   | 0.0    | 0.025  | 0.0    | 0.0    | 0.0   |
| 14  | 0.0    | 0.0   | 0.0   | 0.005  | 0.0    | 0.0   | 0.0   | 0.0    | 0.050  | 0.0    | 0.0    | 0.0   |
| 15  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.007  | 0.0    | 0.0    | 0.0   |
| 16  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 17  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.705  | 0.0    | 0.0    | 0.0   |
| 18  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.010  | 0.0    | 0.0    | 0.0   |
| 19  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 20  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 21  | 0.0    | 0.0 T | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 22  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 23  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.221  | 0.0   |
| 24  | 0.0 T  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.050  | 0.0   |
| 25  | 0.002  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 26  | 0.004  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 27  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 28  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 29  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.0   |
| 30  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.071  | 0.0    | 0.087  | 0.0    | 0.0   |
| 31  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.717  | 0.0    | 0.0   |
| MEAN  | 0.0002 | 0.0   | 0.0   | 0.0068 | 0.0002 | 0.0   | 0.0   | 0.0023 | 0.0273 | 0.0259 | 0.0096 | 0.0   |
| INCRS   | 0.026  | 0.002 | 0.0   | 0.869  | 0.023  | 0.0   | 0.0   | 0.302  | 3.486  | 3.418  | 1.230  | 0.003 |
| STA AV  | 0.173  | 0.070 | 0.688 | 0.466  | 0.639  | 0.697 | 0.507 | 0.164  | 0.581  | 1.572  | 0.510  | 0.636 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 4.250295. Records began January 1, 1969.  
STA AV based on 6 yr (1969-74) record period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-14 |          |          |          |        |           |          |        |        |        |          |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          |        |        |        |          |  |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF OCTOBER 31, 1974                                      |          |          |          |        |           |          |        |        |        |          |  |
| RG 00075A  |          |          |          |        |           |          |        |        |        |          |  |
| 10-31  | 0.0      | 0.011    | 10-31    | 35     | 0.0       | 0.0      | 10-31  | 203    | 0.027  | 0.0      |  |
|  |          |          |          | 50     | 0.1600    | 0.04     |        | 233    | 0.046  | 0.0032   |  |
|  |          |          |          | 200    | 0.0       | 0.04     |        | 253    | 0.054  | 0.0062   |  |
|  |          |          |          | 205    | 0.3602    | 0.07     |        | 258    | 0.065  | 0.0071   |  |
|  |          |          |          | 240    | 0.0       | 0.07     |        | 303    | 0.095  | 0.0082   |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |        |          |  |
| 96% grain sorghum; 4% Bermudagrass waterway, good cover.       |          |          |          |        |           |          |        |        |        |          |  |
|  |          |          |          | 250    | 0.1199    | 0.09     |        | 308    | 0.147  | 0.0101   |  |
|  |          |          |          | 300    | 0.3600    | 0.15     |        | 310    | 0.190  | 0.0110   |  |
|  |          |          |          | 305    | 0.3600    | 0.18     |        | 312    | 0.262  | 0.0124   |  |
|  |          |          |          | 310    | 0.8401    | 0.25     |        | 313    | 0.351  | 0.0133   |  |
|  |          |          |          | 312    | 5.0999    | 0.42     |        | 314    | 0.448  | 0.0144   |  |
|  |          |          |          | 314    | 5.0999    | 0.59     |        | 315    | 0.600  | 0.0162   |  |
|  |          |          |          | 316    | 7.8003    | 0.85     |        | 316    | 1.792  | 0.0195   |  |
|  |          |          |          | 318    | 4.2000    | 0.99     |        | 317    | 4.974  | 0.0288   |  |
|  |          |          |          | 320    | 2.4001    | 1.07     |        | 318    | 8.272  | 0.0472   |  |
|  |          |          |          | 335    | 0.0       | 1.07     |        | 319    | 10.840 | 0.0802   |  |
|  |          |          |          | 340    | 0.2399    | 1.09     |        | 320    | 11.716 | 0.1114   |  |
|  |          |          |          | 350    | 0.1800    | 1.12     |        | 321    | 11.917 | 0.1441   |  |
|  |          |          |          | 404    | 0.0       | 1.12     |        | 322    | 11.883 | 0.1771   |  |
|  |          |          |          | 410    | 0.8000    | 1.20     |        | 323    | 11.716 | 0.2179   |  |
|  |          |          |          | 414    | 0.7500    | 1.25     |        | 324    | 10.872 | 0.2491   |  |
|  |          |          |          | 420    | 0.3999    | 1.29     |        | 325    | 10.341 | 0.2785   |  |
|  |          |          |          | 425    | 0.1201    | 1.30     |        | 327    | 8.846  | 0.3382   |  |
|  |          |          |          | 430    | 0.2401    | 1.32     |        | 329    | 7.146  | 0.3825   |  |
|  |          |          |          | 435    | 0.3600    | 1.35     |        | 331    | 5.644  | 0.4223   |  |
|  |          |          |          | 440    | 0.2399    | 1.37     |        | 333    | 4.935  | 0.4515   |  |
|  |          |          |          | 445    | 0.1201    | 1.38     |        | 335    | 4.057  | 0.4795   |  |
|  |          |          |          | 450    | 0.3600    | 1.41     |        | 337    | 3.531  | 0.5005   |  |
|  |          |          |          | 455    | 0.6000    | 1.46     |        | 339    | 2.926  | 0.5206   |  |
|  |          |          |          | 500    | 0.9598    | 1.54     |        | 341    | 2.585  | 0.5359   |  |
|  |          |          |          | 505    | 1.0801    | 1.63     |        | 343    | 2.293  | 0.5511   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.

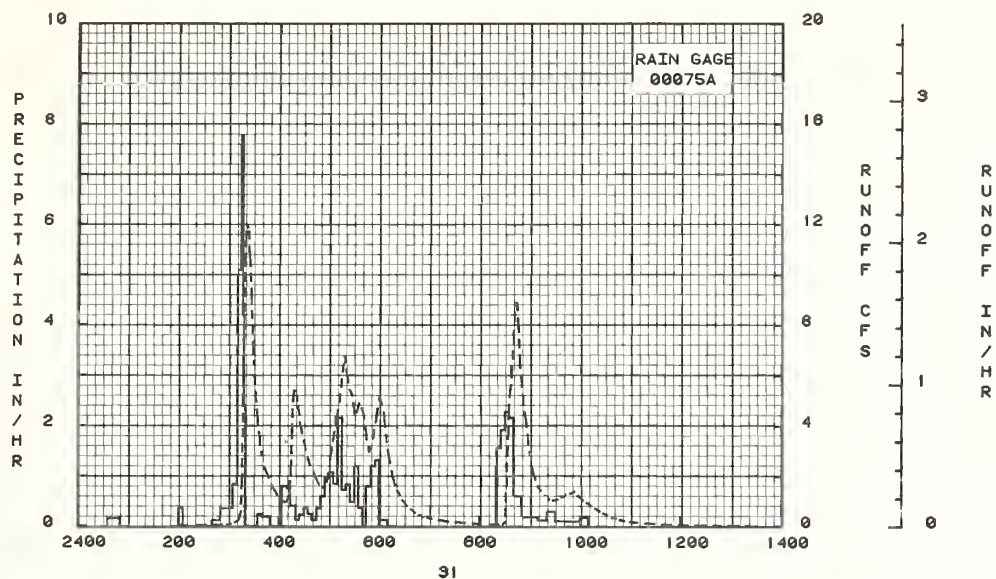
| 1974 SELECTED RUNOFF EVENT            |                      |                    | RIESEL (WACO), TEXAS |                |                      | WATERSHED Y-14   |                |                  |
|---------------------------------------|----------------------|--------------------|----------------------|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                 |                      |                    | RAINFALL             |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                        | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day       | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|                                       |                      |                    |                      |                |                      |                  |                | Rate<br>(cfs)    |
|                                       |                      |                    |                      |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |                      |                    |                      |                |                      |                  |                |                  |
| 10-31                                 | 510                  | 0.8399             | 1.70                 | 10-31          | 348                  | 1.916            | 0.5816         |                  |
|                                       | 515                  | 2.1601             | 1.88                 |                | 353                  | 1.532            | 0.6079         |                  |
|                                       | 520                  | 0.7200             | 1.94                 |                | 358                  | 1.272            | 0.6282         |                  |
|                                       | 525                  | 0.8399             | 2.01                 |                | 403                  | 1.033            | 0.6450         |                  |
|                                       | 530                  | 0.4801             | 2.05                 |                | 408                  | 0.949            | 0.6601         |                  |
|                                       | 535                  | 1.1999             | 2.15                 |                | 410                  | 0.997            | 0.6654         |                  |
|                                       | 540                  | 0.3600             | 2.18                 |                | 412                  | 1.192            | 0.6723         |                  |
|                                       | 544                  | 0.0                | 2.18                 |                | 413                  | 1.505            | 0.6760         |                  |
|                                       | 550                  | 0.8000             | 2.26                 |                | 414                  | 1.792            | 0.6806         |                  |
|                                       | 555                  | 1.2001             | 2.36                 |                | 415                  | 2.611            | 0.6882         |                  |
|                                       | 600                  | 1.3200             | 2.47                 |                | 416                  | 4.057            | 0.6974         |                  |
|                                       | 610                  | 0.1200             | 2.49                 |                | 417                  | 4.994            | 0.7099         |                  |
|                                       | 820                  | 0.0                | 2.49                 |                | 418                  | 5.394            | 0.7243         |                  |
|                                       | 825                  | 1.5599             | 2.62                 |                | 419                  | 5.374            | 0.7429         |                  |
|                                       | 830                  | 1.9200             | 2.78                 |                | 420                  | 5.374            | 0.7578         |                  |
|                                       | 835                  | 2.2800             | 2.97                 |                | 421                  | 5.192            | 0.7724         |                  |
|                                       | 840                  | 2.1599             | 3.15                 |                | 422                  | 4.974            | 0.7865         |                  |
|                                       | 850                  | 0.6000             | 3.25                 |                | 423                  | 4.743            | 0.8033         |                  |
|                                       | 900                  | 0.1800             | 3.28                 |                | 424                  | 4.428            | 0.8160         |                  |
|                                       | 910                  | 0.1800             | 3.31                 |                | 426                  | 3.989            | 0.8392         |                  |
|                                       | 920                  | 0.1200             | 3.33                 |                | 428                  | 3.673            | 0.8631         |                  |
|                                       | 930                  | 0.3000             | 3.38                 |                | 430                  | 3.395            | 0.8851         |                  |
|                                       | 1000                 | 0.1000             | 3.43                 |                | 432                  | 3.008            | 0.9028         |                  |
|                                       | 1010                 | 0.1801             | 3.46                 |                | 435                  | 2.662            | 0.9283         |                  |
|                                       |                      |                    |                      |                | 438                  | 2.376            | 0.9510         |                  |
|                                       |                      |                    |                      |                | 443                  | 2.001            | 0.9828         |                  |
|                                       |                      |                    |                      |                | 448                  | 1.645            | 1.0092         |                  |
|                                       |                      |                    |                      |                | 453                  | 1.541            | 1.0335         |                  |
|                                       |                      |                    |                      |                | 455                  | 1.597            | 1.0422         |                  |
|                                       |                      |                    |                      |                | 457                  | 1.782            | 1.0527         |                  |
|                                       |                      |                    |                      |                | 459                  | 2.099            | 1.0634         |                  |
|                                       |                      |                    |                      |                | 501                  | 2.687            | 1.0783         |                  |
|                                       |                      |                    |                      |                | 503                  | 3.106            | 1.0943         |                  |
|                                       |                      |                    |                      |                | 506                  | 3.755            | 1.1252         |                  |
|                                       |                      |                    |                      |                | 509                  | 4.338            | 1.1616         |                  |
|                                       |                      |                    |                      |                | 512                  | 4.974            | 1.2035         |                  |
|                                       |                      |                    |                      |                | 518                  | 6.809            | 1.3054         |                  |
|                                       |                      |                    |                      |                | 521                  | 6.010            | 1.3630         |                  |
|                                       |                      |                    |                      |                | 524                  | 5.415            | 1.4144         |                  |
|                                       |                      |                    |                      |                | 527                  | 5.192            | 1.4621         |                  |
|                                       |                      |                    |                      |                | 531                  | 4.302            | 1.5179         |                  |
|                                       |                      |                    |                      |                | 533                  | 4.538            | 1.5423         |                  |
|                                       |                      |                    |                      |                | 536                  | 4.896            | 1.5848         |                  |
|                                       |                      |                    |                      |                | 539                  | 4.687            | 1.6279         |                  |
|                                       |                      |                    |                      |                | 542                  | 4.267            | 1.6681         |                  |
|                                       |                      |                    |                      |                | 545                  | 3.425            | 1.7027         |                  |
|                                       |                      |                    |                      |                | 548                  | 2.953            | 1.7292         |                  |
|                                       |                      |                    |                      |                | 551                  | 3.205            | 1.7569         |                  |
|                                       |                      |                    |                      |                | 554                  | 3.837            | 1.7885         |                  |
|                                       |                      |                    |                      |                | 557                  | 4.410            | 1.8256         |                  |
|                                       |                      |                    |                      |                | 600                  | 5.132            | 1.8685         |                  |
|                                       |                      |                    |                      |                | 603                  | 4.820            | 1.9098         |                  |
|                                       |                      |                    |                      |                | 605                  | 4.519            | 1.9389         |                  |
|                                       |                      |                    |                      |                | 607                  | 3.938            | 1.9623         |                  |
|                                       |                      |                    |                      |                | 609                  | 3.336            | 1.9849         |                  |
|                                       |                      |                    |                      |                | 611                  | 2.818            | 2.0020         |                  |
|                                       |                      |                    |                      |                | 613                  | 2.486            | 2.0185         |                  |
|                                       |                      |                    |                      |                | 616                  | 1.947            | 2.0384         |                  |
|                                       |                      |                    |                      |                | 619                  | 1.654            | 2.0546         |                  |
|                                       |                      |                    |                      |                | 622                  | 1.390            | 2.0672         |                  |
|                                       |                      |                    |                      |                | 625                  | 1.207            | 2.0789         |                  |
|                                       |                      |                    |                      |                | 628                  | 1.033            | 2.0890         |                  |
|                                       |                      |                    |                      |                | 633                  | 0.818            | 2.1024         |                  |
|                                       |                      |                    |                      |                | 638                  | 0.670            | 2.1138         |                  |
|                                       |                      |                    |                      |                | 643                  | 0.545            | 2.1226         |                  |
|                                       |                      |                    |                      |                | 648                  | 0.435            | 2.1297         |                  |
|                                       |                      |                    |                      |                | 653                  | 0.378            | 2.1359         |                  |
|                                       |                      |                    |                      |                | 658                  | 0.336            | 2.1411         |                  |
|                                       |                      |                    |                      |                | 703                  | 0.294            | 2.1456         |                  |
|                                       |                      |                    |                      |                | 713                  | 0.234            | 2.1535         |                  |
|                                       |                      |                    |                      |                | 723                  | 0.183            | 2.1597         |                  |
|                                       |                      |                    |                      |                | 733                  | 0.154            | 2.1646         |                  |
|                                       |                      |                    |                      |                | 743                  | 0.126            | 2.1688         |                  |
|                                       |                      |                    |                      |                | 753                  | 0.107            | 2.1722         |                  |
|                                       |                      |                    |                      |                | 803                  | 0.096            | 2.1752         |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.

| 1974      SELECTED RUNOFF EVENT       |          |          | RIESEL (WACO), TEXAS |        |           | WATERSHED Y-14 |        |          |
|---------------------------------------|----------|----------|----------------------|--------|-----------|----------------|--------|----------|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL             |        |           | RUNOFF         |        |          |
| Date                                  | Rainfall | Runoff   | Date                 | Time   | Intensity | Acc.           | Date   | Time     |
| Mo-Day                                | (inches) | (inches) | Mo-Day               | of Day | (in/hr)   | (inches)       | Mo-Day | of Day   |
|                                       |          |          |                      |        |           |                |        | Rate     |
|                                       |          |          |                      |        |           |                |        | (cfs)    |
|                                       |          |          |                      |        |           |                |        | Acc.     |
|                                       |          |          |                      |        |           |                |        | (inches) |
| EVENT OF OCTOBER 31, 1974 (CONTINUED) |          |          |                      |        |           |                |        |          |
|                                       |          |          |                      |        |           |                | 10-31  | 813      |
|                                       |          |          |                      |        |           |                |        | 823      |
|                                       |          |          |                      |        |           |                |        | 828      |
|                                       |          |          |                      |        |           |                |        | 830      |
|                                       |          |          |                      |        |           |                |        | 831      |
|                                       |          |          |                      |        |           |                |        | 832      |
|                                       |          |          |                      |        |           |                |        | 833      |
|                                       |          |          |                      |        |           |                |        | 834      |
|                                       |          |          |                      |        |           |                |        | 835      |
|                                       |          |          |                      |        |           |                |        | 836      |
|                                       |          |          |                      |        |           |                |        | 837      |
|                                       |          |          |                      |        |           |                |        | 838      |
|                                       |          |          |                      |        |           |                |        | 839      |
|                                       |          |          |                      |        |           |                |        | 840      |
|                                       |          |          |                      |        |           |                |        | 841      |
|                                       |          |          |                      |        |           |                |        | 842      |
|                                       |          |          |                      |        |           |                |        | 843      |
|                                       |          |          |                      |        |           |                |        | 844      |
|                                       |          |          |                      |        |           |                |        | 845      |
|                                       |          |          |                      |        |           |                |        | 846      |
|                                       |          |          |                      |        |           |                |        | 848      |
|                                       |          |          |                      |        |           |                |        | 850      |
|                                       |          |          |                      |        |           |                |        | 852      |
|                                       |          |          |                      |        |           |                |        | 854      |
|                                       |          |          |                      |        |           |                |        | 856      |
|                                       |          |          |                      |        |           |                |        | 858      |
|                                       |          |          |                      |        |           |                |        | 901      |
|                                       |          |          |                      |        |           |                |        | 904      |
|                                       |          |          |                      |        |           |                |        | 907      |
|                                       |          |          |                      |        |           |                |        | 910      |
|                                       |          |          |                      |        |           |                |        | 913      |
|                                       |          |          |                      |        |           |                |        | 918      |
|                                       |          |          |                      |        |           |                |        | 923      |
|                                       |          |          |                      |        |           |                |        | 928      |
|                                       |          |          |                      |        |           |                |        | 933      |
|                                       |          |          |                      |        |           |                |        | 938      |
|                                       |          |          |                      |        |           |                |        | 943      |
|                                       |          |          |                      |        |           |                |        | 948      |
|                                       |          |          |                      |        |           |                |        | 953      |
|                                       |          |          |                      |        |           |                |        | 958      |
|                                       |          |          |                      |        |           |                |        | 1003     |
|                                       |          |          |                      |        |           |                |        | 1008     |
|                                       |          |          |                      |        |           |                |        | 1013     |
|                                       |          |          |                      |        |           |                |        | 1018     |
|                                       |          |          |                      |        |           |                |        | 1023     |
|                                       |          |          |                      |        |           |                |        | 1028     |
|                                       |          |          |                      |        |           |                |        | 1033     |
|                                       |          |          |                      |        |           |                |        | 1038     |
|                                       |          |          |                      |        |           |                |        | 1043     |
|                                       |          |          |                      |        |           |                |        | 1048     |
|                                       |          |          |                      |        |           |                |        | 1053     |
|                                       |          |          |                      |        |           |                |        | 1100     |
|                                       |          |          |                      |        |           |                |        | 1120     |
|                                       |          |          |                      |        |           |                |        | 1140     |
|                                       |          |          |                      |        |           |                |        | 1200     |
|                                       |          |          |                      |        |           |                |        | 1230     |
|                                       |          |          |                      |        |           |                |        | 1300     |
|                                       |          |          |                      |        |           |                |        | 1400     |
|                                       |          |          |                      |        |           |                |        | 1600     |
|                                       |          |          |                      |        |           |                |        | 1800     |
|                                       |          |          |                      |        |           |                |        | 2400     |

NOTES: To convert runoff in CPS to IN/HR, multiply by .177096.





## HIESEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. W.

AREA: 9.90 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               |            |             |             |       |       |       |       | HIESEL (WACO), TEXAS WATERSHED W-12 |       |       |       |  |  |  |  |  |  |  |  |  |  |
|---|---|------------------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|-------|-------|-------|-------|-------------------------------------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
|   |   | Jan                    | Feb         | Mar          | Apr          | May           | Jun        | Jul         | Aug         | Sep   | Oct   | Nov   | Dec   | Annual                              |       |       |       |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 2.14                   | 1.04        | 1.58         | 3.55         | 2.04          | 0.47       | 1.19        | 7.12        | 8.93  | 6.91  | 4.56  | 1.69  | 41.22                               |       |       |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.141                  | 0.011       | 0.0          | 0.570        | 0.189         | 0.0        | 0.0         | 0.294       | 3.235 | 3.234 | 1.233 | 0.011 | 8.918                               |       |       |       |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 2.04                   | 1.87        | 2.53         | 3.29         | 2.74          | 2.93       | 3.57        | 3.42        | 4.73  | 5.84  | 2.47  | 2.72  | 38.14                               |       |       |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.119                  | 0.029       | 0.489        | 0.398        | 0.250         | 0.702      | 0.285       | 0.133       | 0.669 | 1.131 | 0.597 | 0.606 | 5.408                               |       |       |       |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |            |             |             |       |       |       |       |                                     |       |       |       |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date |       |       |       |       |                                     |       |       |       |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 9-17                   | 1.597       | 9-17         | 1.295        | 9-17          | 1.721      | 10-31       | 2.576       | 10-31 | 2.977 | 10-30 | 3.226 | 10-30                               | 3.234 | 10-30 | 3.256 |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |            |             |             |       |       |       |       |                                     |       |       |       |  |  |  |  |  |  |  |  |  |  |
|   |   | 6-3                    | 2.862       | 6-3          | 1.675        | 11-17         | 2.018      | 10-31       | 2.576       | 10-31 | 2.977 | 10-30 | 3.226 | 10-30                               | 3.234 | 5-28  | 3.437 |  |  |  |  |  |  |  |  |  |  |
|   |   | 1973                   |             | 1973         |              | 1971          |            | 1974        |             | 1974  |       | 1974  |       | 1974                                |       | 1974  |       |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: 97% sorghum; 3% grassed waterway. Cropland platted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.039-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |      |      |      |       |       |       |       |      |       | HIESEL (WACO), TEXAS WATERSHED W-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|------|-------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May  | Jun  | Jul  | Aug   | Sep   | Oct   | Nov   | Dec  |       |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 1.24 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.02E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.06E | 0.61  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.31 | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.65 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.17E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.79 | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.03E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.30  | 0.0   | 0.0   | 0.04 | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.04E | 0.0   | 0.07E | 0.0   | 0.0  | 0.0  | 0.25 | 0.0   | 0.0   | 0.36  | 0.0   | 0.07 | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.13  | 0.0   | 0.22  | 0.0   | 0.15 | 0.0  | 0.0  | 0.0   | 1.04  | 0.0   | 0.44  | 0.71 |       |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0   | 0.0   | 0.05E | 1.05  | 0.0  | 0.0  | 0.0  | 0.05E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0   | 0.0   | 0.21  | 0.0   | 0.0  | 0.22 | 0.0  | 0.0   | 0.61  | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.04E | 0.0   | 0.0   | 1.71  | 0.0  | 0.0  | 0.0  | 0.0   | 1.07  | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.05E | 0.31  | 0.0   | 0.0  | 0.0  | 0.0  | 0.18  | 0.0   | 0.59  | 0.85  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.06E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.16  | 0.0   | 0.90  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 3.35  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.46  | 0.15  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0   | 0.0   | 0.44  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.84  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.11E | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.41 | 0.0  | 0.0  | 0.0   | 1.72  | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.34  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 2.30 | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.09  | 0.15E | 0.26 | 0.29  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.47  | 0.0   | 0.28  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.10E | 0.19  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.27E | 2.08  | 0.01E | 0.0   | 0.0  | 0.09E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.11  | 0.0   | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 1.01  | 0.0   | 0.81  | 0.0  | 0.05E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.12E | 0.0  | 0.0  | 0.0  | 0.0   | 0.70  | 0.0   | 0.0   | 0.35 | 0.06E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.26  | 0.0  | 0.0  | 0.0  | 0.0   | 1.04  | 0.0   | 1.62  | 0.0  | 0.06E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.47  | 0.0   | 3.48  | 0.0   | 0.0  | 0.17E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |       | 2.14  | 1.04  | 1.58  | 3.55 | 2.04 | 0.47 | 1.19  | 7.12  | 8.93  | 6.91  | 4.56 | 1.69  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |       | 2.04  | 1.87  | 2.53  | 3.29 | 2.74 | 2.93 | 3.57  | 3.42  | 4.73  | 5.84  | 2.47 | 2.72  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1B. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-12 |        |        |       |        |        |       |       |        |        |        |        |        |  |
|---|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--|
| Day   | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |  |
| 1   | 0.0    | 0.0    | 0.0   | 0.0    | 0.077  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 2   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 3   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 4   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 5   | 0.0    | 0.0    | 0.0   | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 6   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 7   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.018  | 0.0    |  |
| 8   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.005  | 0.0    |  |
| 9   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 10  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.019  | 0.0    | 0.039  | 0.004  |  |
| 11  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.002  | 0.0 T  |  |
| 12  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 13  | 0.0    | 0.0    | 0.0   | 0.222  | 0.0    | 0.0   | 0.0   | 0.0    | 0.070  | 0.0    | 0.0    | 0.0    |  |
| 14  | 0.0    | 0.0    | 0.0   | 0.015  | 0.0    | 0.0   | 0.0   | 0.0    | 0.057  | 0.0    | 0.0    | 0.0    |  |
| 15  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    |  |
| 16  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    |  |
| 17  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 1.162  | 0.0    | 0.0    | 0.0    |  |
| 18  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.032  | 0.0    | 0.0    | 0.0    |  |
| 19  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 20  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 21  | 0.0    | 0.005  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 22  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 23  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.329  | 0.0    |  |
| 24  | 0.004  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.120  | 0.0    |  |
| 25  | 0.006  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 26  | 0.046  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 27  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 28  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.019  | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 29  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.039  | 0.0    | 0.0    | 0.0    | 0.0    |  |
| 30  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.064  | 0.0    | 0.102  | 0.0    | 0.0    |  |
| 31  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 1.243  | 0.0    | 0.0    |  |
| MEAN  | 0.0019 | 0.0002 | 0.0   | 0.0079 | 0.0025 | 0.0   | 0.0   | 0.0040 | 0.0448 | 0.0434 | 0.0171 | 0.0001 |  |
| INCHES  | 0.141  | 0.011  | 0.0   | 0.570  | 0.189  | 0.0   | 0.0   | 0.294  | 3.235  | 3.234  | 1.233  | 0.011  |  |
| STA AV  | 0.119  | 0.029  | 0.489 | 0.398  | 0.250  | 0.702 | 0.285 | 0.133  | 0.669  | 1.131  | 0.597  | 0.606  |  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.404207. STA AV based on 6 yr (1969-74) record period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-12 |          |          |           |        |           |          |        |        |        |          |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           | RUNOFF   |        |        |        |          |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF OCTOBER 30 - 31, 1974                                 |          |          |           |        |           |          |        |        |        |          |  |
| RG 000W1B  |          |          | RG 000W1B |        |           |          |        |        |        |          |  |
| 10-30  | 1.62     | 0.244    | 10-30     | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 0.037  | 0.0      |  |
|  |          |          | 10-31     | 35     | 0.0       | 0.0      | 10-31  | 107    | 0.046  | 0.0046   |  |
|  |          |          |           | 105    | 0.0600    | 0.03     |        | 157    | 0.037  | 0.0081   |  |
|  |          |          |           | 155    | 0.0       | 0.03     |        | 227    | 0.063  | 0.0106   |  |
|  |          |          |           | 205    | 0.4800    | 0.11     |        | 247    | 0.063  | 0.0127   |  |
| WATERSHED CONDITIONS:  |          |          |           | 235    | 0.0       | 0.11     |        | 252    | 0.074  | 0.0133   |  |
| 97% sorghum; 3% Bermudagrass                                   |          |          |           | 245    | 0.0600    | 0.12     |        | 257    | 0.089  | 0.0140   |  |
| waterway, good cover.  |          |          |           | 255    | 0.3000    | 0.17     |        | 302    | 0.113  | 0.0148   |  |
|  |          |          |           | 305    | 0.3000    | 0.22     |        | 307    | 0.144  | 0.0159   |  |
|  |          |          |           | 310    | 1.6800    | 0.36     |        | 310    | 0.171  | 0.0167   |  |
|  |          |          |           | 315    | 6.0000    | 0.86     |        | 311    | 0.220  | 0.0170   |  |
|  |          |          |           | 320    | 2.5199    | 1.07     |        | 312    | 0.267  | 0.0174   |  |
|  |          |          |           | 335    | 0.0       | 1.07     |        | 313    | 0.351  | 0.0179   |  |
|  |          |          |           | 345    | 0.2401    | 1.11     |        | 314    | 0.480  | 0.0186   |  |
|  |          |          |           | 400    | 0.0       | 1.11     |        | 315    | 0.722  | 0.0197   |  |
|  |          |          |           | 405    | 0.4799    | 1.15     |        | 316    | 1.577  | 0.0215   |  |
|  |          |          |           | 410    | 1.0800    | 1.24     |        | 317    | 3.419  | 0.0255   |  |
|  |          |          |           | 415    | 1.8001    | 1.39     |        | 318    | 5.320  | 0.0323   |  |
|  |          |          |           | 435    | 0.2400    | 1.47     |        | 319    | 7.466  | 0.0448   |  |
|  |          |          |           | 450    | 0.2000    | 1.52     |        | 320    | 9.233  | 0.0579   |  |
|  |          |          |           | 505    | 1.0800    | 1.79     |        | 321    | 10.699 | 0.0735   |  |
|  |          |          |           | 510    | 1.3200    | 1.90     |        | 322    | 11.964 | 0.0912   |  |
|  |          |          |           | 515    | 1.5601    | 2.03     |        | 323    | 12.787 | 0.1154   |  |
|  |          |          |           | 520    | 0.6000    | 2.08     |        | 324    | 13.104 | 0.1357   |  |
|  |          |          |           | 525    | 0.5999    | 2.13     |        | 325    | 13.633 | 0.1561   |  |
|  |          |          |           | 530    | 0.8401    | 2.20     |        | 327    | 12.405 | 0.2009   |  |
|  |          |          |           | 535    | 0.9600    | 2.28     |        | 329    | 11.664 | 0.2386   |  |
|  |          |          |           | 540    | 0.0       | 2.28     |        | 331    | 10.605 | 0.2778   |  |
|  |          |          |           | 555    | 0.8800    | 2.50     |        | 333    | 9.579  | 0.3094   |  |
|  |          |          |           | 600    | 0.7200    | 2.56     |        | 335    | 8.673  | 0.3415   |  |

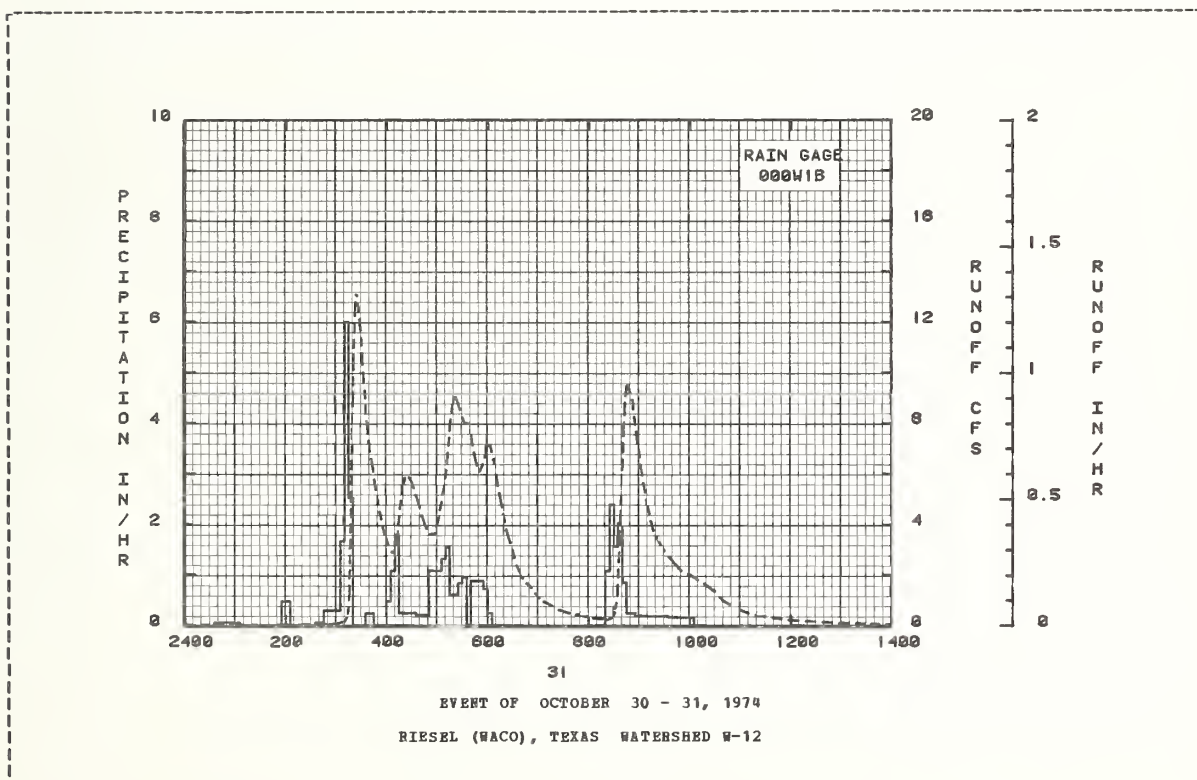
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.

| 1974 SELECTED RUNOFF EVENT                 |          |          | BIESEL (WACO), TEXAS WATERSHED W-12 |        |           |          |        |        |       |          |
|--|----------|----------|-------------------------------------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                            |        |           | RUNOFF   |        |        |       |          |
| Date                                       | Rainfall | Rnnoff   | Date                                | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day                              | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |          |          |                                     |        |           |          |        |        |       |          |
| 10-31                                      | 605      | 0.2401   | 2.58                                | 10-31  | 337       | 7.899    | 0.3675 |        |       |          |
|  | 820      | 0.0      | 2.58                                |        | 340       | 6.857    | 0.4050 |        |       |          |
|  | 825      | 1.0800   | 2.67                                |        | 343       | 6.370    | 0.4387 |        |       |          |
|  | 830      | 2.4000   | 2.87                                |        | 347       | 5.380    | 0.4777 |        |       |          |
|  | 835      | 1.5601   | 3.00                                |        | 352       | 4.475    | 0.5182 |        |       |          |
|  | 840      | 2.0400   | 3.17                                |        | 357       | 3.687    | 0.5534 |        |       |          |
|  | 845      | 0.8399   | 3.24                                |        | 402       | 3.179    | 0.5816 |        |       |          |
|  | 855      | 0.2401   | 3.28                                |        | 407       | 2.866    | 0.6064 |        |       |          |
|  | 905      | 0.1800   | 3.31                                |        | 410       | 2.922    | 0.6211 |        |       |          |
|  | 935      | 0.1800   | 3.40                                |        | 413       | 3.435    | 0.6373 |        |       |          |
| 1005                                       | 0.1600   | 3.48     |                                     |        | 416       | 4.659    | 0.6579 |        |       |          |
|  |          |          |                                     |        | 419       | 5.462    | 0.6836 |        |       |          |
|  |          |          |                                     |        | 422       | 5.862    | 0.7102 |        |       |          |
|  |          |          |                                     |        | 427       | 5.884    | 0.7608 |        |       |          |
|  |          |          |                                     |        | 432       | 5.442    | 0.8073 |        |       |          |
|  |          |          |                                     |        | 437       | 4.944    | 0.8500 |        |       |          |
|  |          |          |                                     |        | 442       | 4.331    | 0.8899 |        |       |          |
|  |          |          |                                     |        | 447       | 3.833    | 0.9234 |        |       |          |
|  |          |          |                                     |        | 452       | 3.607    | 0.9540 |        |       |          |
|  |          |          |                                     |        | 457       | 3.655    | 0.9853 |        |       |          |
|  |          |          |                                     |        | 502       | 4.295    | 1.0179 |        |       |          |
|  |          |          |                                     |        | 507       | 5.259    | 1.0572 |        |       |          |
|  |          |          |                                     |        | 512       | 6.530    | 1.1079 |        |       |          |
|  |          |          |                                     |        | 515       | 7.873    | 1.1446 |        |       |          |
|  |          |          |                                     |        | 518       | 8.728    | 1.1835 |        |       |          |
|  |          |          |                                     |        | 520       | 9.034    | 1.2148 |        |       |          |
|  |          |          |                                     |        | 522       | 9.006    | 1.2431 |        |       |          |
|  |          |          |                                     |        | 527       | 8.509    | 1.3185 |        |       |          |
|  |          |          |                                     |        | 532       | 8.003    | 1.3863 |        |       |          |
|  |          |          |                                     |        | 537       | 7.977    | 1.4520 |        |       |          |
|  |          |          |                                     |        | 542       | 7.121    | 1.5169 |        |       |          |
|  |          |          |                                     |        | 547       | 6.325    | 1.5722 |        |       |          |
|  |          |          |                                     |        | 550       | 6.102    | 1.6038 |        |       |          |
|  |          |          |                                     |        | 554       | 6.393    | 1.6454 |        |       |          |
|  |          |          |                                     |        | 557       | 6.692    | 1.6786 |        |       |          |
|  |          |          |                                     |        | 600       | 7.194    | 1.7140 |        |       |          |
|  |          |          |                                     |        | 602       | 7.145    | 1.7364 |        |       |          |
|  |          |          |                                     |        | 607       | 6.553    | 1.7927 |        |       |          |
|  |          |          |                                     |        | 612       | 5.524    | 1.8447 |        |       |          |
|  |          |          |                                     |        | 617       | 4.677    | 1.8866 |        |       |          |
|  |          |          |                                     |        | 622       | 3.784    | 1.9213 |        |       |          |
|  |          |          |                                     |        | 627       | 3.268    | 1.9517 |        |       |          |
|  |          |          |                                     |        | 632       | 2.664    | 1.9761 |        |       |          |
|  |          |          |                                     |        | 637       | 2.182    | 1.9960 |        |       |          |
|  |          |          |                                     |        | 642       | 1.874    | 2.0134 |        |       |          |
|  |          |          |                                     |        | 647       | 1.670    | 2.0280 |        |       |          |
|  |          |          |                                     |        | 652       | 1.488    | 2.0410 |        |       |          |
|  |          |          |                                     |        | 657       | 1.263    | 2.0528 |        |       |          |
|  |          |          |                                     |        | 702       | 1.089    | 2.0625 |        |       |          |
|  |          |          |                                     |        | 707       | 0.949    | 2.0708 |        |       |          |
|  |          |          |                                     |        | 717       | 0.774    | 2.0853 |        |       |          |
|  |          |          |                                     |        | 727       | 0.604    | 2.0969 |        |       |          |
|  |          |          |                                     |        | 737       | 0.494    | 2.1060 |        |       |          |
|  |          |          |                                     |        | 747       | 0.417    | 2.1136 |        |       |          |
|  |          |          |                                     |        | 757       | 0.351    | 2.1201 |        |       |          |
|  |          |          |                                     |        | 807       | 0.306    | 2.1255 |        |       |          |
|  |          |          |                                     |        | 817       | 0.267    | 2.1303 |        |       |          |
|  |          |          |                                     |        | 822       | 0.252    | 2.1324 |        |       |          |
|  |          |          |                                     |        | 827       | 0.302    | 2.1348 |        |       |          |
|  |          |          |                                     |        | 829       | 0.374    | 2.1359 |        |       |          |
|  |          |          |                                     |        | 831       | 0.516    | 2.1374 |        |       |          |
|  |          |          |                                     |        | 832       | 0.699    | 2.1384 |        |       |          |
|  |          |          |                                     |        | 833       | 0.903    | 2.1396 |        |       |          |
|  |          |          |                                     |        | 834       | 1.239    | 2.1417 |        |       |          |
|  |          |          |                                     |        | 835       | 1.632    | 2.1440 |        |       |          |
|  |          |          |                                     |        | 836       | 2.612    | 2.1473 |        |       |          |
|  |          |          |                                     |        | 837       | 3.450    | 2.1521 |        |       |          |
|  |          |          |                                     |        | 838       | 4.260    | 2.1596 |        |       |          |
|  |          |          |                                     |        | 839       | 5.279    | 2.1671 |        |       |          |
|  |          |          |                                     |        | 840       | 6.280    | 2.1761 |        |       |          |
|  |          |          |                                     |        | 841       | 7.218    | 2.1867 |        |       |          |
|  |          |          |                                     |        | 842       | 8.029    | 2.2016 |        |       |          |
|  |          |          |                                     |        | 843       | 8.811    | 2.2148 |        |       |          |
|  |          |          |                                     |        | 845       | 9.492    | 2.2470 |        |       |          |
|  |          |          |                                     |        | 847       | 9.521    | 2.2768 |        |       |          |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.100175.

| 1974                                       | SELECTED RUNOFF EVENT |          |          |        |           | RIESEL (WACO), TEXAS |        |        |       |          | WATERSHED W-12 |
|--|-----------------------|----------|----------|--------|-----------|----------------------|--------|--------|-------|----------|----------------|
| ANTECEDENT CONDITIONS                      |                       |          | RAINFALL |        |           | RUNOFF               |        |        |       |          |                |
| Date                                       | Rainfall              | Runoff   | Date     | Time   | Intensity | Acc.                 | Date   | Time   | Rate  | Acc.     |                |
| Mo-Day                                     | (inches)              | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)             | Mo-Day | of Day | (cfs) | (inches) |                |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                       |          |          |        |           |                      |        |        |       |          |                |
|  |                       |          |          | 10-31  |           |                      |        | 849    | 9.204 | 2.3097   |                |
|  |                       |          |          |        |           |                      |        | 852    | 8.838 | 2.3521   |                |
|  |                       |          |          |        |           |                      |        | 857    | 7.541 | 2.4226   |                |
|  |                       |          |          |        |           |                      |        | 902    | 6.235 | 2.4792   |                |
|  |                       |          |          |        |           |                      |        | 907    | 5.259 | 2.5264   |                |
|  |                       |          |          |        |           |                      |        | 912    | 4.420 | 2.5681   |                |
|  |                       |          |          |        |           |                      |        | 917    | 3.752 | 2.6016   |                |
|  |                       |          |          |        |           |                      |        | 922    | 3.389 | 2.6310   |                |
|  |                       |          |          |        |           |                      |        | 930    | 2.964 | 2.6745   |                |
|  |                       |          |          |        |           |                      |        | 940    | 2.509 | 2.7195   |                |
|  |                       |          |          |        |           |                      |        | 950    | 2.158 | 2.7587   |                |
|  |                       |          |          |        |           |                      |        | 1000   | 2.008 | 2.7938   |                |
|  |                       |          |          |        |           |                      |        | 1010   | 1.814 | 2.8252   |                |
|  |                       |          |          |        |           |                      |        | 1020   | 1.587 | 2.8538   |                |
|  |                       |          |          |        |           |                      |        | 1030   | 1.352 | 2.8785   |                |
|  |                       |          |          |        |           |                      |        | 1040   | 0.990 | 2.8978   |                |
|  |                       |          |          |        |           |                      |        | 1050   | 0.785 | 2.9127   |                |
|  |                       |          |          |        |           |                      |        | 1100   | 0.635 | 2.9247   |                |
|  |                       |          |          |        |           |                      |        | 1110   | 0.485 | 2.9339   |                |
|  |                       |          |          |        |           |                      |        | 1120   | 0.413 | 2.9414   |                |
|  |                       |          |          |        |           |                      |        | 1130   | 0.355 | 2.9479   |                |
|  |                       |          |          |        |           |                      |        | 1140   | 0.316 | 2.9534   |                |
|  |                       |          |          |        |           |                      |        | 1200   | 0.217 | 2.9624   |                |
|  |                       |          |          |        |           |                      |        | 1220   | 0.179 | 2.9689   |                |
|  |                       |          |          |        |           |                      |        | 1240   | 0.138 | 2.9742   |                |
|  |                       |          |          |        |           |                      |        | 1300   | 0.113 | 2.9784   |                |
|  |                       |          |          |        |           |                      |        | 1400   | 0.037 | 2.9859   |                |
|  |                       |          |          |        |           |                      |        | 1500   | 0.010 | 2.9883   |                |
|  |                       |          |          |        |           |                      |        | 1600   | 0.004 | 2.9890   |                |
|  |                       |          |          |        |           |                      |        | 1800   | 0.0   | 2.9894   |                |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.





RIESEL (WACO), TEXAS WATERSHED W-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 57 sec. N.; Long. 96 deg. 53 min. 08 sec. W.

AREA: 11.30 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | RIESEL (WACO), TEXAS WATERSHED W-13       |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 2.14              | 1.04  | 1.58   | 3.55  | 2.04    | 0.47  | 1.19                                      | 7.12  | 8.93     | 6.91  | 4.56  | 1.69  | 41.22  |       |        |       |
|   | Q | 0.100             | 0.016 | 0.0    | 0.763 | 0.141   | 0.0   | 0.0                                       | 0.203 | 3.392    | 3.951 | 1.516 | 0.012 | 10.093 |       |        |       |
| STA AV  | P | 2.04              | 1.87  | 2.53   | 3.29  | 2.74    | 2.93  | 3.57                                      | 3.42  | 4.73     | 5.84  | 2.47  | 2.72  | 38.14  |       |        |       |
|   | Q | 0.118             | 0.026 | 0.459  | 0.449 | 0.393   | 0.717 | 0.276                                     | 0.082 | 0.718    | 1.102 | 0.600 | 0.581 | 5.521  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 9-17              | 1.861 | 9-17   | 1.447 | 9-17    | 2.021 | 10-31                                     | 3.004 | 10-31    | 3.652 | 10-30 | 3.942 | 10-30  | 3.951 | 10-30  | 3.985 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |          |       |       |       |        |       |        |       |
|   |   | 7-6               | 3.317 | 6-3    | 1.669 | 9-17    | 2.021 | 10-31                                     | 3.004 | 10-31    | 3.652 | 10-30 | 3.942 | 10-30  | 3.951 | 10-30  | 3.985 |
|   |   | 1973              |       | 1973   |       | 1974    |       | 1974                                      |       | 1974     |       | 1974  |       | 1974   |       | 1974   |       |

NOTES: Watershed conditions: 97% sorghum; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

| 1974 DAILY PRECIPITATION (inches) |     |       |       |       |       |      |      |       |       |       |       |      | RIESEL (WACO), TEXAS WATERSHED W-13 |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-----|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day | Jan   | Feb   | Mar   | Apr   | May  | Jun  | Jul   | Aug   | Sep   | Oct   | Nov  | Dec                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 1   | 0.01E | 0.0   | 0.0   | 0.0   | 1.24 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 3   | 0.02E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.06E | 0.61  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.65 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 6   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 7   | 0.01E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 8   | 0.03E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.30  | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 9   | 0.04E | 0.0   | 0.07E | 0.0   | 0.0  | 0.25 | 0.0   | 0.0   | 0.36  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 10  | 0.13  | 0.0   | 0.22  | 0.0   | 0.15 | 0.0  | 0.0   | 0.0   | 1.04  | 0.0   | 0.44 | 0.71                                |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 11  | 0.0   | 0.0   | 0.05E | 1.05  | 0.0  | 0.0  | 0.05E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 12  | 0.0   | 0.0   | 0.21  | 0.0   | 0.0  | 0.22 | 0.0   | 0.0   | 0.61  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 13  | 0.04E | 0.0   | 0.0   | 1.71  | 0.0  | 0.0  | 0.0   | 0.0   | 1.07  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 14  | 0.0   | 0.05E | 0.31  | 0.0   | 0.0  | 0.0  | 0.18  | 0.0   | 0.59  | 0.85  | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 15  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.06E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 16  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.16  | 0.0   | 0.90  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 17  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 3.35  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 18  | 0.46  | 0.15  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 19  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 20  | 0.0   | 0.0   | 0.44  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 21  | 0.0   | 0.84  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.11E | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 22  | 0.0   | 0.0   | 0.0   | 0.41  | 0.0  | 0.0  | 0.0   | 1.72  | 0.0   | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 23  | 0.34  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 2.30 | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 24  | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.09  | 0.15E | 0.26 | 0.29                                |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 25  | 0.47  | 0.0   | 0.28  | 0.0   | 0.0  | 0.0  | 0.0   | 0.10E | 0.19  | 0.0   | 0.0  | 0.0                                 |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 26  | 0.29  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.27E | 2.08  | 0.01E | 0.0   | 0.0  | 0.09E                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.11  | 0.0   | 0.0   | 0.0  | 0.09E                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 1.01  | 0.0   | 0.81  | 0.0  | 0.05E                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 29  | 0.0   | 0.0   | 0.0   | 0.12E | 0.0  | 0.0  | 0.0   | 0.70  | 0.0   | 0.0   | 0.35 | 0.06E                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 30  | 0.0   | 0.0   | 0.0   | 0.26  | 0.0  | 0.0  | 0.0   | 1.04  | 0.0   | 1.62  | 0.0  | 0.06E                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 31  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.47  | 0.0   | 0.0   | 3.48  | 0.0  | 0.17E                               |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |     | 2.14  | 1.04  | 1.58  | 3.55  | 2.04 | 0.47 | 1.19  | 7.12  | 8.93  | 6.91  | 4.56 | 1.69                                |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |     | 2.04  | 1.87  | 2.53  | 3.29  | 2.74 | 2.93 | 3.57  | 3.42  | 4.73  | 5.84  | 2.47 | 2.72                                |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1B. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

| 1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-13 |        |        |       |        |        |       |       |        |        |        |        |        |
|---|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.0    | 0.0    | 0.0   | 0.0    | 0.064  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5   | 0.0    | 0.0    | 0.0   | 0.0    | 0.003  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.030  | 0.0    |
| 8   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.010  | 0.0    |
| 9   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.004  | 0.0    |
| 10  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.027  | 0.0    | 0.087  | 0.005  |
| 11  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.008  | 0.0    | 0.005  | 0.001  |
| 12  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    |
| 13  | 0.0    | 0.0    | 0.0   | 0.319  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14  | 0.0    | 0.0    | 0.0   | 0.043  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    |
| 17  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 1.495  | 0.0    | 0.0    | 0.0    |
| 18  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.079  | 0.0    | 0.0    | 0.0    |
| 19  | 0.005  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21  | 0.0    | 0.007  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.399  | 0.0    |
| 24  | 0.009  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.185  | 0.0    |
| 25  | 0.007  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 26  | 0.026  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.008  | 0.0    | 0.0    | 0.0    | 0.0    |
| 29  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.031  | 0.0    | 0.0    | 0.0    | 0.0    |
| 30  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.057  | 0.0    | 0.131  | 0.0    | 0.0    |
| 31  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 1.745  | 0.0    | 0.0    |
| MEAN  | 0.0015 | 0.0003 | 0.0   | 0.0121 | 0.0022 | 0.0   | 0.0   | 0.0031 | 0.0537 | 0.0605 | 0.0240 | 0.0002 |
| INCHES  | 0.100  | 0.016  | 0.0   | 0.763  | 0.141  | 0.0   | 0.0   | 0.203  | 3.392  | 3.951  | 1.516  | 0.012  |
| STA AV  | 0.118  | 0.026  | 0.459 | 0.449  | 0.393  | 0.717 | 0.276 | 0.082  | 0.718  | 1.102  | 0.660  | 0.581  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period.

| 1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-13 |          |          |          |        |           |          |        |        |        |          |  |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |        |          |  |  |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF OCTOBER 30 - 31, 1974                                 |          |          |          |        |           |          |        |        |        |          |  |  |
| RG 000W1B RG 000W1B  |          |          |          |        |           |          |        |        |        |          |  |  |
| 10-30  | 1.62     | 0.276    | 10-30    | 2400   | 0.0       | 0.0      | 10-30  | 2400   | 0.054  | 0.0      |  |  |
|  |          |          | 10-31    | 35     | 0.0       | 0.0      | 10-31  | 100    | 0.057  | 0.0049   |  |  |
|  |          |          |          | 105    | 0.0600    | 0.03     |        | 150    | 0.043  | 0.0086   |  |  |
|  |          |          |          | 155    | 0.0       | 0.03     |        | 200    | 0.059  | 0.0093   |  |  |
|  |          |          |          | 205    | 0.4800    | 0.11     |        | 220    | 0.086  | 0.0114   |  |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |        |          |  |  |
| 97% sorghum; 3% Beraudagrass                                   |          |          |          |        |           |          |        |        |        |          |  |  |
| waterway, good cover.  |          |          |          |        |           |          |        |        |        |          |  |  |
|  |          |          |          | 235    | 0.0       | 0.11     |        | 240    | 0.091  | 0.0140   |  |  |
|  |          |          |          | 245    | 0.0600    | 0.12     |        | 245    | 0.106  | 0.0148   |  |  |
|  |          |          |          | 255    | 0.3000    | 0.17     |        | 250    | 0.142  | 0.0156   |  |  |
|  |          |          |          | 305    | 0.3000    | 0.22     |        | 255    | 0.189  | 0.0168   |  |  |
|  |          |          |          | 310    | 1.6800    | 0.36     |        | 300    | 0.262  | 0.0185   |  |  |
|  |          |          |          | 315    | 6.0000    | 0.86     |        | 303    | 0.326  | 0.0197   |  |  |
|  |          |          |          | 320    | 2.5199    | 1.07     |        | 305    | 0.430  | 0.0209   |  |  |
|  |          |          |          | 335    | 0.0       | 1.07     |        | 306    | 0.618  | 0.0216   |  |  |
|  |          |          |          | 345    | 0.2401    | 1.11     |        | 307    | 1.038  | 0.0228   |  |  |
|  |          |          |          | 400    | 0.0       | 1.11     |        | 308    | 1.522  | 0.0250   |  |  |
|  |          |          |          | 405    | 0.4799    | 1.15     |        | 309    | 2.496  | 0.0277   |  |  |
|  |          |          |          | 410    | 1.0800    | 1.24     |        | 310    | 3.551  | 0.0319   |  |  |
|  |          |          |          | 415    | 1.8001    | 1.39     |        | 311    | 4.326  | 0.0373   |  |  |
|  |          |          |          | 435    | 0.2400    | 1.47     |        | 312    | 5.079  | 0.0453   |  |  |
|  |          |          |          | 450    | 0.2000    | 1.52     |        | 313    | 5.610  | 0.0527   |  |  |
|  |          |          |          | 505    | 1.0800    | 1.79     |        | 314    | 6.241  | 0.0608   |  |  |
|  |          |          |          | 510    | 1.3200    | 1.90     |        | 315    | 6.914  | 0.0720   |  |  |
|  |          |          |          | 515    | 1.5601    | 2.03     |        | 316    | 7.479  | 0.0819   |  |  |
|  |          |          |          | 520    | 0.6000    | 2.08     |        | 317    | 8.720  | 0.0930   |  |  |
|  |          |          |          | 525    | 0.5999    | 2.13     |        | 318    | 9.226  | 0.1053   |  |  |
|  |          |          |          | 530    | 0.8401    | 2.20     |        | 320    | 10.172 | 0.1353   |  |  |
|  |          |          |          | 535    | 0.9600    | 2.28     |        | 322    | 11.273 | 0.1647   |  |  |
|  |          |          |          | 540    | 0.0       | 2.28     |        | 324    | 11.436 | 0.1997   |  |  |
|  |          |          |          | 555    | 0.8800    | 2.50     |        | 326    | 11.143 | 0.2307   |  |  |
|  |          |          |          | 600    | 0.7200    | 2.56     |        | 330    | 10.729 | 0.2981   |  |  |

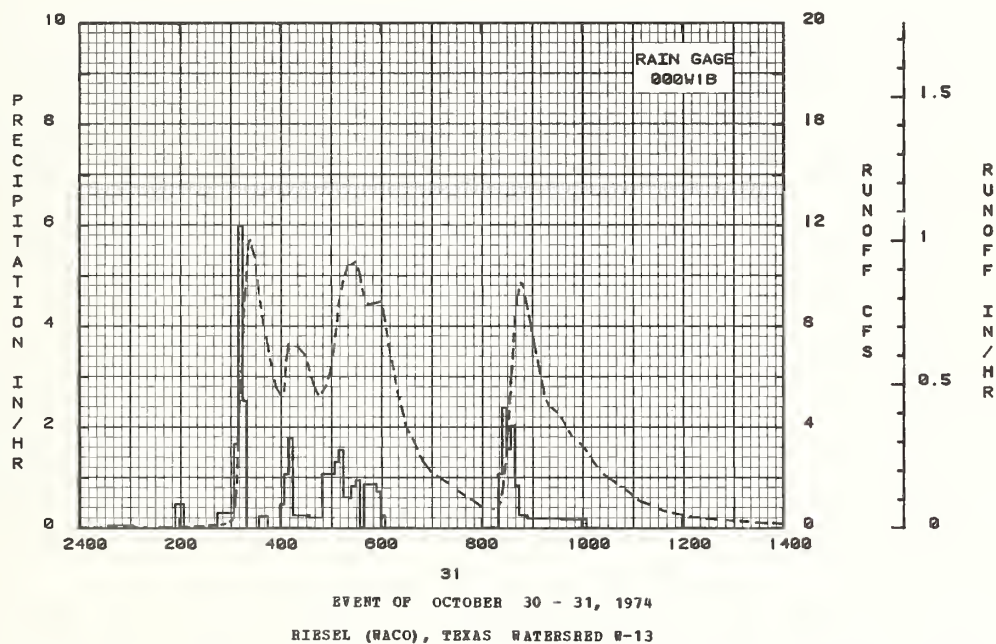
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.

| 1974      SELECTED RUNOFF EVENT                     |                      |                    | RIESEL (WACO), TEXAS    WATERSHED W-13 |                |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|--|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                               |                      |                    | RAINFALL                               |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                                      | Rainfall<br>(inches) | Rnnoff<br>(inches) | Date<br>Mo-Day                         | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF    OCTOBER    30 - 31, 1974    (CONTINUED) |                      |                    |  |                |                      |                  |                |                |               |                  |
| 10-31   | 605                  | 0.2401             |  |                | 2.58                 |                  | 10-31          | 335            | 9.313         | 0.3703           |
|   | 820                  | 0.0                |  |                | 2.58                 |                  |                | 340            | 8.151         | 0.4332           |
|   | 825                  | 1.0800             |  |                | 2.67                 |                  |                | 345            | 7.304         | 0.4914           |
|   | 830                  | 2.4000             |  |                | 2.87                 |                  |                | 350            | 6.445         | 0.5409           |
|   | 835                  | 1.5601             |  |                | 3.00                 |                  |                | 355            | 5.589         | 0.5842           |
|   | 840                  | 2.0400             |  |                | 3.17                 |                  |                | 400            | 5.300         | 0.6253           |
|   | 845                  | 0.8399             |  |                | 3.24                 |                  |                | 405            | 5.464         | 0.6641           |
|   | 855                  | 0.2401             |  |                | 3.28                 |                  |                | 408            | 6.771         | 0.6913           |
|   | 905                  | 0.1800             |  |                | 3.31                 |                  |                | 410            | 7.304         | 0.7106           |
|   | 935                  | 0.1800             |  |                | 3.40                 |                  |                | 420            | 7.230         | 0.8177           |
| 1005  |                      | 0.1600             |  |                | 3.48                 |                  |                | 430            | 6.842         | 0.9215           |
|   |                      |                    |  |                |                      |                  |                | 440            | 5.695         | 1.0117           |
|   |                      |                    |  |                |                      |                  |                | 445            | 5.300         | 1.0532           |
|   |                      |                    |  |                |                      |                  |                | 450            | 5.402         | 1.0917           |
|   |                      |                    |  |                |                      |                  |                | 455            | 5.673         | 1.1316           |
|   |                      |                    |  |                |                      |                  |                | 500            | 6.241         | 1.1765           |
|   |                      |                    |  |                |                      |                  |                | 505            | 7.329         | 1.2254           |
|   |                      |                    |  |                |                      |                  |                | 510            | 8.887         | 1.2837           |
|   |                      |                    |  |                |                      |                  |                | 515            | 9.811         | 1.3542           |
|   |                      |                    |  |                |                      |                  |                | 520            | 10.356        | 1.4268           |
|   |                      |                    |  |                |                      |                  |                | 530            | 10.573        | 1.5811           |
|   |                      |                    |  |                |                      |                  |                | 535            | 10.051        | 1.6553           |
|   |                      |                    |  |                |                      |                  |                | 540            | 9.112         | 1.7243           |
|   |                      |                    |  |                |                      |                  |                | 545            | 8.887         | 1.7922           |
|   |                      |                    |  |                |                      |                  |                | 600            | 8.999         | 1.9884           |
|   |                      |                    |  |                |                      |                  |                | 605            | 8.204         | 2.0503           |
|   |                      |                    |  |                |                      |                  |                | 610            | 7.205         | 2.1058           |
|   |                      |                    |  |                |                      |                  |                | 615            | 6.309         | 2.1568           |
|   |                      |                    |  |                |                      |                  |                | 620            | 5.402         | 2.1989           |
|   |                      |                    |  |                |                      |                  |                | 625            | 4.769         | 2.2355           |
|   |                      |                    |  |                |                      |                  |                | 630            | 4.063         | 2.2688           |
|   |                      |                    |  |                |                      |                  |                | 640            | 3.410         | 2.3226           |
|   |                      |                    |  |                |                      |                  |                | 650            | 2.651         | 2.3673           |
|   |                      |                    |  |                |                      |                  |                | 700            | 2.233         | 2.4033           |
|   |                      |                    |  |                |                      |                  |                | 710            | 2.002         | 2.4338           |
|   |                      |                    |  |                |                      |                  |                | 720            | 1.787         | 2.4617           |
|   |                      |                    |  |                |                      |                  |                | 730            | 1.531         | 2.4862           |
|   |                      |                    |  |                |                      |                  |                | 740            | 1.299         | 2.5066           |
|   |                      |                    |  |                |                      |                  |                | 750            | 1.089         | 2.5242           |
|   |                      |                    |  |                |                      |                  |                | 800            | 0.849         | 2.5384           |
|   |                      |                    |  |                |                      |                  |                | 810            | 0.782         | 2.5502           |
|   |                      |                    |  |                |                      |                  |                | 815            | 0.740         | 2.5559           |
|   |                      |                    |  |                |                      |                  |                | 820            | 0.837         | 2.5616           |
|   |                      |                    |  |                |                      |                  |                | 823            | 1.031         | 2.5658           |
|   |                      |                    |  |                |                      |                  |                | 825            | 1.382         | 2.5691           |
|   |                      |                    |  |                |                      |                  |                | 827            | 1.867         | 2.5741           |
|   |                      |                    |  |                |                      |                  |                | 829            | 2.547         | 2.5801           |
|   |                      |                    |  |                |                      |                  |                | 831            | 3.425         | 2.5893           |
|   |                      |                    |  |                |                      |                  |                | 833            | 4.362         | 2.6000           |
|   |                      |                    |  |                |                      |                  |                | 834            | 5.119         | 2.6082           |
|   |                      |                    |  |                |                      |                  |                | 835            | 5.931         | 2.6157           |
|   |                      |                    |  |                |                      |                  |                | 837            | 6.445         | 2.6327           |
|   |                      |                    |  |                |                      |                  |                | 838            | 7.132         | 2.6443           |
|   |                      |                    |  |                |                      |                  |                | 840            | 8.338         | 2.6655           |
|   |                      |                    |  |                |                      |                  |                | 842            | 8.915         | 2.6922           |
|   |                      |                    |  |                |                      |                  |                | 845            | 9.458         | 2.7331           |
|   |                      |                    |  |                |                      |                  |                | 847            | 9.722         | 2.7594           |
|   |                      |                    |  |                |                      |                  |                | 850            | 9.545         | 2.8023           |
|   |                      |                    |  |                |                      |                  |                | 855            | 8.692         | 2.8680           |
|   |                      |                    |  |                |                      |                  |                | 900            | 7.810         | 2.9302           |
|   |                      |                    |  |                |                      |                  |                | 905            | 6.938         | 2.9833           |
|   |                      |                    |  |                |                      |                  |                | 910            | 6.129         | 3.0303           |
|   |                      |                    |  |                |                      |                  |                | 915            | 5.320         | 3.0735           |
|   |                      |                    |  |                |                      |                  |                | 920            | 4.865         | 3.1102           |
|   |                      |                    |  |                |                      |                  |                | 930            | 4.600         | 3.1799           |
|   |                      |                    |  |                |                      |                  |                | 940            | 4.097         | 3.2426           |
|   |                      |                    |  |                |                      |                  |                | 950            | 3.519         | 3.2987           |
|   |                      |                    |  |                |                      |                  |                | 1000           | 3.303         | 3.3490           |
|   |                      |                    |  |                |                      |                  |                | 1010           | 2.799         | 3.3929           |
|   |                      |                    |  |                |                      |                  |                | 1020           | 2.322         | 3.4307           |
|   |                      |                    |  |                |                      |                  |                | 1030           | 2.013         | 3.4626           |
|   |                      |                    |  |                |                      |                  |                | 1040           | 1.797         | 3.4900           |
|   |                      |                    |  |                |                      |                  |                | 1050           | 1.567         | 3.5148           |
|   |                      |                    |  |                |                      |                  |                | 1100           | 1.299         | 3.5360           |
|   |                      |                    |  |                |                      |                  |                | 1110           | 1.052         | 3.5529           |

NOTES: To convert rnnoff in CPS to IN/HR, multiply by 0.087764.

| 1974 SELECTED RUNOFF EVENT                 |                      |                    | RIESEL (WACO), TEXAS WATERSHED W-13 |                |                      |                  |                |                |                                   |
|--|----------------------|--------------------|-------------------------------------|----------------|----------------------|------------------|----------------|----------------|-----------------------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL                            |                |                      | RUNOFF           |                |                |                                   |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Rnnoff<br>(inches) | Date<br>Mo-Day                      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs)<br>Acc.<br>(inches) |
| EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED) |                      |                    |                                     |                |                      |                  |                |                |                                   |
| 10-31                                      |                      |                    |                                     |                |                      |                  | 1120           | 0.921          | 3.5674                            |
|  |                      |                    |                                     |                |                      |                  | 1130           | 0.776          | 3.5799                            |
|  |                      |                    |                                     |                |                      |                  | 1140           | 0.656          | 3.5902                            |
|  |                      |                    |                                     |                |                      |                  | 1200           | 0.505          | 3.6074                            |
|  |                      |                    |                                     |                |                      |                  | 1220           | 0.401          | 3.6205                            |
|  |                      |                    |                                     |                |                      |                  | 1240           | 0.344          | 3.6314                            |
|  |                      |                    |                                     |                |                      |                  | 1300           | 0.285          | 3.6407                            |
|  |                      |                    |                                     |                |                      |                  | 1330           | 0.207          | 3.6515                            |
|  |                      |                    |                                     |                |                      |                  | 1400           | 0.157          | 3.6595                            |
|  |                      |                    |                                     |                |                      |                  | 1430           | 0.110          | 3.6653                            |
|  |                      |                    |                                     |                |                      |                  | 1500           | 0.069          | 3.6692                            |
|  |                      |                    |                                     |                |                      |                  | 1600           | 0.022          | 3.6732                            |
|  |                      |                    |                                     |                |                      |                  | 1700           | 0.005          | 3.6744                            |
|  |                      |                    |                                     |                |                      |                  | 1800           | 0.0            | 3.6746                            |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.





## MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA

LOCATION: Piatt Co., Il; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.: Long. 88 deg. 38 min. 45 sec. W.

AREA: 82.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |       |             |       |              | MONTICELLO, ILLINOIS (ALLERTON) |  |       |               |       |            |       | WATERSHED IA |       |
|---|---|------------------------|-------|-------------|-------|--------------|---------------------------------|--|-------|---------------|-------|------------|-------|--------------|-------|
|   |   | Jan                    | Feb   | Mar         | Apr   | May          | Jun                             | Jul  | Aug   | Sep           | Oct   | Nov        | Dec   | Annual       |       |
| 1960  | P | 1.28                   | 1.45  | 0.69        | 2.86  | 3.65         | 5.74                            | 2.00   | 1.14  | 2.63          | 1.93  | 2.51       | 0.91  | 26.79        |       |
|   | Q | 0.0                    | 0.0   | 0.0         | 0.0   | 0.0          | 0.089                           | 0.000  | 0.0   | 0.0           | 0.0   | 0.0        | 0.0   | 0.089        |       |
| 1961  | P | 0.0                    | 1.59  | 2.99        | 4.53  | 5.26         | 4.86                            | 3.10   | 2.12  | 3.84          | 3.59  | 3.20       | 2.26  | 37.34        |       |
|   | Q | 0.0                    | 0.000 | 0.0         | 0.000 | 1.556        | 0.0                             | 0.0  | 0.0   | 0.0           | 0.0   | 0.0        | 0.0   | 1.556        |       |
| 1962  | P | 3.27                   | 1.03  | 2.22        | 1.84  | 4.40         | 1.72                            | 5.24   | 2.64  | 1.88          | 1.46  | 1.22       | 0.0   | 26.92        |       |
|   | Q | 0.001                  | 0.081 | 0.460       | 0.0   | 0.004        | 0.0                             | 0.037  | 0.002 | 0.0           | 0.0   | 0.0        | 0.0   | 0.585        |       |
| 1963  | P | 0.95                   | 0.36  | 4.67        | 3.39  | 0.69         | 0.83                            | 3.33   | 5.35  | 0.22          | 1.86  | 1.61       | 0.40  | 23.66        |       |
|   | Q | 0.0                    | 0.0   | 0.675       | 0.005 | 0.0          | 0.0                             | 0.0  | 0.0   | 0.0           | 0.0   | 0.0        | 0.0   | 0.680        |       |
| 1964  | P | 1.46                   | 0.86  | 3.83        | 8.33  | 0.46         | 4.02                            | 3.62   | 2.52  | 2.20          | 0.0   | 3.47       | 1.45  | 32.22        |       |
|   | Q | 0.0                    | 0.0   | 0.068       | 2.026 | 0.0          | 0.169                           | 0.023  | 0.0   | 0.0           | 0.0   | 0.0        | 0.0   | 2.286        |       |
| 1965  | P | 3.15                   | 1.07  | 2.09        | 5.27  | 1.69         | 3.91                            | 3.13   | 5.90  | 7.04          | 1.21  | 1.00       | 2.66  | 38.12        |       |
|   | Q | 0.0                    | 0.0   | 0.0         | 0.206 | 0.0          | 0.000                           | 0.0  | 0.0   | 0.006         | 0.0   | 0.0        | 0.0   | 0.212        |       |
| 1966  | P | 0.22                   | 2.06  | 1.09        | 4.59  | 2.20         | 1.01                            | 2.34   | 2.58  | 5.95          | 1.64  | 3.69       | 3.73  | 31.10        |       |
|   | Q | 0.0                    | 0.000 | 0.0         | 0.030 | 0.0          | 0.0                             | 0.0  | 0.0   | 0.0           | 0.0   | 0.0        | 0.283 | 0.313        |       |
| 1967  | P | 2.52                   | 1.06  | 2.49        | 1.74  | 5.40         | 2.64                            | 2.73   | 2.76  | 2.75          | 4.11  | 2.11       | 6.46  | 36.77        |       |
|   | Q | 0.094                  | 0.003 | 0.004       | 0.000 | 0.005        | 0.001                           | 0.0  | 0.0   | 0.0           | 0.0   | 0.0        | 0.804 | 0.910        |       |
| 1968  | P | 2.11                   | 1.46  | 1.35        | 3.77  | 6.76         | 6.10                            | 2.18   | 1.37  | 2.34          | 0.26  | 4.29       | 1.67  | 33.66        |       |
|   | Q | 0.017                  | 0.0   | 0.0         | 0.002 | 0.109        | 0.537                           | 0.0  | 0.0   | 0.0           | 0.0   | 0.0        | 0.0   | 0.665        |       |
| 1969  | P | 3.00                   | 1.02  | 0.40        | 3.29  | 1.45         | 1.09                            | 3.07   | 2.02  | 6.92          | 4.93  | 2.73       | 0.55  | 30.47        |       |
|   | Q | 0.129                  | 0.027 | 0.0         | 0.0   | 0.0          | 0.0                             | 0.0  | 0.0   | 0.0           | 0.001 | 0.012      | 0.0   | 0.169        |       |
| STA AV  | P | 1.91                   | 1.67  | 2.23        | 3.85  | 3.38         | 3.71                            | 3.41   | 2.69  | 2.83          | 2.73  | 2.25       | 1.92  | 32.56        |       |
|   | Q | 0.103                  | 0.158 | 0.111       | 0.174 | 0.110        | 0.137                           | 0.079  | 0.008 | 0.001         | 0.080 | 0.003      | 0.089 | 1.055        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |       |             |       |              |                                 |  |       |               |       |            |       |              |       |
|   |   | Maximum Discharge Date | Rate  | 1 Hour Date | Vol.  | 2 Hours Date | Vol.                            | Maximum Volume for Selected Time Interval Date | Vol.  | 12 Hours Date | Vol.  | 1 Day Date | Vol.  | 2 Days Date  | Vol.  |
| 1960  |   | 6-23                   | 0.059 | 6-23        | 0.049 | 6-23         | 0.078                           | 6-23   | 0.089 | 6-22          | 0.089 | 6-22       | 0.089 | 6-21         | 0.089 |
| 1961  |   | 5-8                    | 1.084 | 5-8         | 0.687 | 5-8          | 0.971                           | 5-8  | 1.499 | 5-8           | 1.554 | 5-7        | 1.556 | 5-6          | 1.556 |
| 1962  |   | 3-20                   | 0.147 | 3-20        | 0.134 | 3-20         | 0.231                           | 3-20   | 0.430 | 3-20          | 0.459 | 3-20       | 0.459 | 3-19         | 0.459 |
| 1963  |   | 3-5                    | 0.145 | 3-5         | 0.132 | 3-5          | 0.229                           | 3-5  | 0.461 | 3-4           | 0.650 | 3-4        | 0.667 | 3-4          | 0.675 |
| 1964  |   | 4-20                   | 1.197 | 4-20        | 0.550 | 4-20         | 0.794                           | 4-20   | 1.327 | 4-20          | 1.552 | 4-19       | 1.763 | 4-18         | 1.960 |
| 1965  |   | 4-5                    | 0.040 | 4-5         | 0.034 | 4-5          | 0.066                           | 4-5  | 0.117 | 4-5           | 0.119 | 4-5        | 0.119 | 4-5          | 0.119 |
| 1966  |   | 12-7                   | 0.067 | 12-7        | 0.057 | 12-7         | 0.096                           | 12-7   | 0.225 | 12-7          | 0.250 | 12-7       | 0.254 | 12-6         | 0.283 |
| 1967  |   | 12-21                  | 0.203 | 12-21       | 0.153 | 12-21        | 0.234                           | 12-21  | 0.323 | 12-21         | 0.627 | 12-20      | 0.632 | 12-19        | 0.632 |
| 1968  |   | 6-15                   | 0.140 | 6-15        | 0.107 | 6-15         | 0.168                           | 6-15   | 0.333 | 6-15          | 0.336 | 6-14       | 0.527 | 6-13         | 0.529 |
| 1969  |   | 1-29                   | 0.029 | 1-29        | 0.021 | 1-29         | 0.040                           | 1-29   | 0.081 | 1-29          | 0.092 | 1-28       | 0.093 | 1-27         | 0.121 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |       |             |       |              |                                 |  |       |               |       |            |       |              |       |
|   |   | 4-20                   | 1.197 | 5-8         | 0.687 | 5-8          | 0.971                           | 5-8  | 1.499 | 5-8           | 1.554 | 4-19       | 1.763 | 4-18         | 1.960 |
|   |   | 1964                   |       | 1961        |       | 1961         |                                 | 1961   |       | 1961          |       | 1964       |       | 1964         |       |

NOTES: For general description of Watershed, see Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States, USDA, ARES, 1957 (Reference No. 1), page 61.1-1. Watershed conditions: With the exceptions of 3.8% devoted to roads and 14.7% in permanent grass, the entire area is used in cropping activities. For percentages of the watershed in various crops, by years and planting dates, see table this page. For contour drainage map of watershed see page 61.001-23. Data for 1970 through 1975 will be included in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975. Precipitation values are from the E-1 gage, located about 400 ft. east of streamgaging station. Precipitation and runoff records began August 1949. STA AV precipitation and runoff amounts are for 21 yr (1949-69) period of record. For long-time precipitation records see National Weather Service records at Decatur, Illinois.

## CROPS, % BY YEARS WITH PLANTING (P) &amp; HARVEST (H) DATES, WHEN KNOWN

| Year | ..... Corn .....        | ..... Wheat ..... | ..... Soybeans .....    | ..... Oats ..... | Ray & Pasture |
|------|-------------------------|-------------------|-------------------------|------------------|---------------|
| 1960 | 22.3                    |                   | 19.4                    | 39.8             |               |
| 1961 | 13.9                    |                   | 22.3                    |                  | 39.8          |
| 1962 | 45.3 05-20 (P)          | 5.5 07-26 (H)     | 34.6 05-23 (P)          | 1.6              |               |
|      | 10-27 TO 11-26 (H)      |                   |                         |                  |               |
| 1963 | 6.5 05-08 TO 05-14 (P)  | 13.8              | 40.4 10-07 TO 10-13 (H) | 20.8             |               |
|      | 11-14 TO 11-15 (H)      |                   |                         |                  |               |
| 1964 | 68.4 05-08 TO 05-15 (P) |                   | 3.6 10-17 TO 10-20 (H)  | 1.9              | 7.6           |
|      | 10-31 TO 11-05 (H)      |                   |                         |                  |               |
| 1965 | 6.5 05-10 TO 05-13 (P)  | 0.6               | 74.4 10-31 TO 11-04 (H) |                  |               |
|      | 10-27 TO 11-19 (H)      |                   |                         |                  |               |
| 1966 | 21.3 10-29 TO 11-30 (H) |                   | 60.2 10-01 TO 10-29 (H) |                  |               |
| 1967 | 53.7                    | 3.0               | 24.8                    |                  |               |
| 1968 | 24.3 04-29 TO 05-10 (P) |                   | 57.2 06-05 TO 06-12 (P) |                  |               |
|      | 11-30 (H)               |                   | 10-18 (H)               |                  |               |
| 1969 | 43.3 04-30 TO 05-08 (P) |                   | 38.2 05-19 TO 06-19 (P) |                  |               |
|      | 12-02 (H)               |                   | 10-06 (H)               |                  |               |

Cooperative Research Project of the Agricultural Engineering Department, Univ. of Illinois and USDA



| 1960 DAILY PRECIPITATION (iuches) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jau  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.40 | 0.0  | 0.0  | 0.0  | 0.0  |
| 5  | 0.0  | 0.40 | 0.0  | 0.0  | 0.12 | 0.61 | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.14 |
| 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.23 |
| 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.66 | 0.0  |
| 9  | 0.0  | 0.32 | 0.07 | 0.0  | 0.10 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  |
| 10   | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11   | 0.30 | 0.0  | 0.0  | 0.11 | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.54 |
| 12   | 0.31 | 0.0  | 0.06 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 1.24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14   | 0.20 | 0.0  | 0.0  | 0.10 | 0.0  | 0.18 | 0.0  | 0.03 | 0.0  | 0.20 | 0.0  | 0.0  |
| 15   | 0.05 | 0.0  | 0.0  | 0.52 | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 1.35 | 0.0  |
| 16   | 0.0  | 0.0  | 0.10 | 0.23 | 0.54 | 0.64 | 0.0  | 0.0  | 1.47 | 0.0  | 0.08 | 0.0  |
| 17   | 0.11 | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  |
| 18   | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.22 | 0.09 | 0.0  | 0.0  |
| 19   | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.79 | 0.0  | 0.11 | 0.46 | 0.10 | 0.0  | 0.0  |
| 20   | 0.0  | 0.02 | 0.0  | 0.53 | 0.21 | 0.52 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21   | 0.0  | 0.16 | 0.0  | 0.04 | 0.09 | 0.18 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  |
| 22   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  |
| 23   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.0  | 0.60 | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25   | 0.0  | 0.13 | 0.0  | 0.0  | 0.79 | 0.0  | 0.08 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  |
| 26   | 0.12 | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.21 | 0.0  | 0.0  | 0.46 | 0.0  | 0.0  |
| 27   | 0.08 | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28   | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  |
| 29   | 0.03 | 0.0  | 0.0  | 0.68 | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.46 | 0.42 | 0.0  | 0.39 | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  |
| 31   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  |
| TOTAL  | 1.28 | 1.45 | 0.69 | 2.86 | 3.65 | 5.74 | 2.00 | 1.14 | 2.63 | 1.93 | 2.51 | 0.91 |
| STA AV   | 1.95 | 2.09 | 2.13 | 3.65 | 3.57 | 4.37 | 3.58 | 2.44 | 2.18 | 3.19 | 1.99 | 1.75 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 12 yr period (1949-60), part year records included.

| 1961 DAILY PRECIPITATION (iuches) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jau  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.39 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  |
| 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.0  | 0.0  | 0.40 |
| 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  |
| 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.71 | 0.37 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7  | 0.0  | 0.0  | 0.07 | 0.0  | 0.81 | 1.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8  | 0.0  | 0.0  | 0.56 | 0.0  | 2.67 | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 9  | 0.0  | 0.0  | 0.0  | 0.50 | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 |
| 10   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.35 | 0.17 | 0.0  | 0.58 |
| 12   | 0.0  | 0.0  | 0.85 | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 |
| 13   | 0.0  | 0.0  | 0.25 | 0.05 | 0.0  | 0.99 | 0.0  | 0.0  | 1.47 | 0.08 | 0.34 | 0.0  |
| 14   | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  |
| 15   | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  |
| 16   | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.24 |
| 17   | 0.0  | 1.31 | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 |
| 18   | 0.0  | 0.28 | 0.72 | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |
| 19   | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 1.54 | 0.34 | 0.20 | 0.0  | 0.39 | 0.10 | 0.26 |
| 20   | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.90 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22   | 0.0  | 0.0  | 0.0  | 1.24 | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.90 | 0.44 |
| 23   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.17 | 0.0  | 0.01 |
| 24   | 0.0  | 0.0  | 0.0  | 1.49 | 0.0  | 0.0  | 0.0  | 0.0  | 1.03 | 0.56 | 0.0  | 0.0  |
| 25   | 0.0  | 0.0  | 0.0  | 0.46 | 0.22 | 0.0  | 0.0  | 0.0  | 0.42 | 0.0  | 0.0  | 0.0  |
| 26   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27   | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.34 | 0.0  | 0.0  | 1.80 | 0.0  | 0.0  |
| 29   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.39 | 0.42 | 0.0  | 0.0  |
| 31   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| TOTAL  | 0.0  | 1.59 | 2.99 | 4.53 | 5.26 | 4.86 | 3.10 | 2.12 | 3.84 | 3.59 | 3.20 | 2.26 |
| STA AV   | 1.79 | 2.05 | 2.20 | 3.72 | 3.71 | 4.41 | 3.54 | 2.42 | 2.31 | 3.22 | 2.08 | 1.79 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 13 yr period (1949-61), part year records included.

| 1962   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      |      | WATERSHED IA |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|------|--------------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct  | Nov          | Dec  |
| 1      | 0.0                          | 0.0  | 0.0  | 0.11 | 0.30 | 0.0                             | 0.13 | 0.0  | 0.0  | 0.32 | 0.0          | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.03 | 0.0                             | 0.54 | 0.0  | 0.0  | 0.31 | 0.0          | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.71 | 0.0  | 0.55 | 0.0  | 0.0          | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.06 | 0.0  | 0.62                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.08         | 0.0  |
| 5      | 0.52                         | 0.0  | 0.0  | 0.19 | 0.0  | 0.0                             | 0.0  | 1.52 | 0.0  | 0.0  | 0.0          | 0.0  |
| 6      | 1.02                         | 0.0  | 0.0  | 0.0  | 0.05 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.12 | 0.0          | 0.0  |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 8      | 0.0                          | 0.0  | 0.0  | 0.21 | 0.99 | 0.10                            | 0.09 | 0.0  | 0.26 | 0.0  | 0.0          | 0.0  |
| 9      | 0.0                          | 0.0  | 0.27 | 0.0  | 0.0  | 0.22                            | 0.0  | 0.0  | 0.97 | 0.0  | 0.0          | 0.0  |
| 10     | 0.0                          | 0.0  | 0.04 | 0.0  | 0.92 | 0.78                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 11     | 0.0                          | 0.0  | 0.26 | 0.0  | 0.0  | 0.0                             | 0.27 | 0.0  | 0.0  | 0.0  | 0.60         | 0.0  |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.07 | 0.02         | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 1.10 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 14     | 0.68                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.09 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 15     | 0.12                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 1.38 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.52         | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.61 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 18     | 0.0                          | 0.45 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 19     | 0.0                          | 0.02 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.08 | 0.0          | 0.0  |
| 20     | 0.0                          | 0.0  | 1.40 | 0.0  | 0.02 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.56 | 0.0          | 0.0  |
| 21     | 0.09                         | 0.26 | 0.25 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.51 | 0.0  | 0.0  | 0.0          | 0.0  |
| 22     | 0.03                         | 0.0  | 0.0  | 0.03 | 0.0  | 0.0                             | 0.78 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.15 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.24 | 0.10 | 0.0  | 0.0          | 0.0  |
| 25     | 0.08                         | 0.20 | 0.0  | 0.0  | 0.20 | 0.0                             | 0.0  | 0.37 | 0.0  | 0.0  | 0.0          | 0.0  |
| 26     | 0.73                         | 0.10 | 0.0  | 0.0  | 0.45 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.31 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.15 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.27 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 1.09 | 0.22 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.03 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| TOTAL  | 3.27                         | 1.03 | 2.22 | 1.84 | 4.40 | 1.72                            | 5.24 | 2.64 | 1.88 | 1.46 | 1.22         | 0.0  |
| STA AV | 1.90                         | 1.97 | 2.20 | 3.58 | 3.76 | 4.20                            | 3.67 | 2.43 | 2.28 | 3.09 | 2.02         | 1.66 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 14 yr period (1949-62), part year records included.

| 1963   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      |      | WATERSHED IA |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|------|--------------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct  | Nov          | Dec  |
| 1      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.17 | 0.0  | 0.0          | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 1.10 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.05 | 0.0  | 0.0          | 0.0  |
| 4      | 0.0                          | 0.0  | 1.39 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.15         | 0.0  |
| 5      | 0.0                          | 0.0  | 0.88 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.11 | 0.0  | 0.0  | 0.29         | 0.0  |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 1.35 | 1.60 | 0.0  | 0.0  | 0.0          | 0.0  |
| 7      | 0.05                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.13 |
| 8      | 0.0                          | 0.0  | 0.03 | 0.0  | 0.0  | 0.0                             | 0.0  | 1.23 | 0.0  | 0.0  | 0.0          | 0.07 |
| 9      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 10     | 0.14                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.83                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 11     | 0.01                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.20 |
| 12     | 0.0                          | 0.0  | 0.17 | 0.0  | 0.35 | 0.0                             | 0.0  | 0.34 | 0.0  | 0.0  | 0.0          | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 1.40 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 14     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 15     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.07 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 16     | 0.0                          | 0.0  | 0.79 | 0.06 | 0.24 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.07 | 0.03 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 18     | 0.0                          | 0.0  | 0.62 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.08 | 0.0  | 0.34 | 0.0          | 0.0  |
| 19     | 0.21                         | 0.0  | 0.33 | 0.17 | 0.0  | 0.0                             | 0.0  | 1.49 | 0.0  | 1.45 | 0.0          | 0.0  |
| 20     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 21     | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 22     | 0.19                         | 0.0  | 0.0  | 0.61 | 0.0  | 0.0                             | 0.0  | 0.10 | 0.0  | 0.0  | 1.17         | 0.0  |
| 23     | 0.0                          | 0.21 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 24     | 0.0                          | 0.15 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 25     | 0.0                          | 0.0  | 0.20 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 26     | 0.06                         | 0.0  | 0.26 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 27     | 0.01                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.15 | 0.0  | 0.0  | 0.07 | 0.0          | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.04 | 0.40 | 0.0  | 0.0  | 0.0          | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 1.38 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 31     | 0.26                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.39 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| TOTAL  | 0.95                         | 0.36 | 4.67 | 3.39 | 0.69 | 0.83                            | 3.33 | 5.35 | 0.22 | 1.86 | 1.61         | 0.40 |
| STA AV | 1.84                         | 1.85 | 2.38 | 3.57 | 3.54 | 3.96                            | 3.65 | 2.63 | 2.14 | 3.01 | 1.99         | 1.58 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 15 yr period (1949-63), part year records included.

| 1964   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      |      | WATERSHED IA |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|------|--------------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct  | Nov          | Dec  |
| 1      | 0.0                          | 0.38 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 1.05 | 0.0  | 0.15                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.25 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 1.12 | 0.0  | 0.61                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.11 |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.13 | 0.20                            | 1.69 | 0.0  | 0.0  | 0.0  | 0.0          | 0.24 |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.08 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 8      | 0.11                         | 0.0  | 1.30 | 0.0  | 0.11 | 0.0                             | 0.24 | 0.0  | 0.0  | 0.0  | 0.0          | 0.20 |
| 9      | 0.0                          | 0.0  | 0.10 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 10     | 0.0                          | 0.0  | 0.21 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.31 | 0.0  | 0.0          | 0.12 |
| 11     | 0.07                         | 0.0  | 0.18 | 0.0  | 0.10 | 0.0                             | 0.45 | 0.0  | 0.0  | 0.0  | 0.0          | 0.29 |
| 12     | 1.28                         | 0.26 | 0.09 | 0.0  | 0.0  | 0.0                             | 0.32 | 0.0  | 0.0  | 0.0  | 0.0          | 0.09 |
| 13     | 0.0                          | 0.0  | 0.0  | 0.19 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 14     | 0.0                          | 0.0  | 0.10 | 0.0  | 0.0  | 0.33                            | 0.38 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 15     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 1.86         | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.10         | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.40 | 0.0  | 0.0          | 0.0  |
| 18     | 0.0                          | 0.13 | 0.0  | 0.10 | 0.0  | 0.0                             | 0.21 | 0.0  | 0.14 | 0.0  | 0.0          | 0.0  |
| 19     | 0.0                          | 0.09 | 0.05 | 2.32 | 0.12 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.17         | 0.0  |
| 20     | 0.0                          | 0.0  | 0.33 | 2.92 | 0.0  | 1.89                            | 0.0  | 0.0  | 0.42 | 0.0  | 0.0          | 0.0  |
| 21     | 0.0                          | 0.0  | 0.0  | 0.50 | 0.0  | 0.84                            | 0.0  | 1.59 | 0.0  | 0.0  | 0.0          | 0.0  |
| 22     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.07 |
| 25     | 0.0                          | 0.0  | 1.47 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.86 | 0.0  | 0.0  | 0.0          | 0.24 |
| 26     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.88 | 0.0  | 0.0          | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.13 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.05 | 0.0  | 1.34         | 0.06 |
| 28     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.03 |
| 29     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.07 | 0.0  | 0.0  | 0.0          | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| TOTAL  | 1.46                         | 0.86 | 3.83 | 8.33 | 0.46 | 4.02                            | 3.62 | 2.52 | 2.20 | 0.0  | 3.47         | 1.45 |
| STA AV | 1.81                         | 1.79 | 2.47 | 3.88 | 3.34 | 3.97                            | 3.65 | 2.62 | 2.14 | 2.82 | 2.08         | 1.57 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 16 yr period (1949-64), part year records included.

| 1965   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      |      | WATERSHED IA |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|------|--------------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct  | Nov          | Dec  |
| 1      | 1.51                         | 0.13 | 0.0  | 0.0  | 0.0  | 2.48                            | 0.0  | 0.08 | 0.0  | 0.0  | 0.0          | 0.0  |
| 2      | 0.10                         | 0.0  | 0.38 | 0.0  | 0.0  | 0.05                            | 0.89 | 0.0  | 0.0  | 0.0  | 0.0          | 0.07 |
| 3      | 0.0                          | 0.0  | 0.02 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.10 | 0.0  | 0.0  | 0.0          | 0.0  |
| 4      | 0.0                          | 0.0  | 0.56 | 0.0  | 0.46 | 0.0                             | 0.0  | 0.48 | 0.17 | 0.0  | 0.0          | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 1.89 | 0.03 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.21 | 0.20                            | 0.0  | 0.0  | 0.0  | 0.44 | 0.07         | 0.0  |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.57 | 0.11 | 0.0  | 0.13 | 0.0          | 0.0  |
| 8      | 0.31                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.05                            | 0.0  | 0.15 | 0.0  | 0.0  | 0.32         | 0.0  |
| 9      | 0.0                          | 0.20 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.32 | 0.0  | 0.0  | 0.0  | 0.0          | 0.05 |
| 10     | 0.0                          | 0.70 | 0.0  | 0.28 | 0.0  | 0.69                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.19 |
| 11     | 0.0                          | 0.0  | 0.0  | 0.80 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.32 | 0.0          | 0.26 |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.25         | 0.15 |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 14     | 0.0                          | 0.04 | 0.0  | 0.76 | 0.0  | 0.0                             | 0.0  | 0.0  | 2.02 | 0.0  | 0.0          | 0.0  |
| 15     | 0.24                         | 0.0  | 0.0  | 0.25 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.05 | 0.0  | 0.0          | 0.0  |
| 16     | 0.0                          | 0.0  | 0.03 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.58 | 2.15 | 0.0  | 0.0          | 0.0  |
| 17     | 0.0                          | 0.0  | 0.29 | 0.0  | 0.0  | 0.0                             | 0.63 | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 18     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.24 | 0.0                             | 0.0  | 0.79 | 0.0  | 0.0  | 0.0          | 0.0  |
| 19     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.04 | 0.0          | 0.0  |
| 20     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.38                            | 0.0  | 0.0  | 0.11 | 0.05 | 0.0          | 0.06 |
| 21     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.06                            | 0.0  | 0.0  | 0.0  | 0.0  | 0.09         | 0.0  |
| 22     | 0.93                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.12 | 1.94 | 0.23 | 0.0          | 0.0  |
| 23     | 0.06                         | 0.0  | 0.57 | 0.24 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 24     | 0.0                          | 0.0  | 0.11 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 1.09 |
| 25     | 0.0                          | 0.0  | 0.11 | 0.91 | 0.06 | 0.0                             | 0.0  | 1.47 | 0.0  | 0.0  | 0.03         | 0.15 |
| 26     | 0.0                          | 0.0  | 0.02 | 0.0  | 0.56 | 0.0                             | 0.0  | 0.77 | 0.0  | 0.0  | 0.24         | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.14 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.13 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.73 | 0.60 | 0.0  | 0.0          | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.72 | 0.52 | 0.0  | 0.0  | 0.0          | 0.64 |
| TOTAL  | 3.15                         | 1.07 | 2.09 | 5.27 | 1.69 | 3.91                            | 3.13 | 5.90 | 7.04 | 1.21 | 1.00         | 2.66 |
| STA AV | 1.89                         | 1.74 | 2.45 | 3.97 | 3.23 | 3.96                            | 3.61 | 2.81 | 2.43 | 2.73 | 2.02         | 1.64 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 17 yr period (1949-65), part year records included.

| 1966   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      | WATERSHED IA |      |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|--------------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct          | Nov  | Dec  |
| 1      | 0.0                          | 0.35 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.43 | 0.0  | 0.0          | 0.0  | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 3      | 0.0                          | 0.0  | 0.66 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.54 | 0.0          | 0.0  | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 1.03 |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.20 | 0.31 |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.10 | 0.0  | 0.0  | 0.0          | 0.06 | 0.20 |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 1.66 |
| 8      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.20 | 0.0  | 0.0          | 0.16 | 0.34 |
| 9      | 0.0                          | 0.50 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.79 | 0.0  | 0.0  | 0.53         | 0.81 | 0.0  |
| 10     | 0.0                          | 0.51 | 0.0  | 0.12 | 0.0  | 0.0                             | 0.0  | 1.06 | 0.0  | 0.0          | 0.0  | 0.0  |
| 11     | 0.0                          | 0.0  | 0.16 | 0.54 | 0.68 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 12     | 0.22                         | 0.0  | 0.15 | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.19 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.04         | 0.0  | 0.0  |
| 14     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.89 | 1.39 | 0.16         | 0.0  | 0.0  |
| 15     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.74                            | 0.0  | 0.0  | 0.0  | 0.70         | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.33 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 18     | 0.0                          | 0.0  | 0.12 | 0.08 | 0.0  | 0.0                             | 0.14 | 0.0  | 0.0  | 0.21         | 0.0  | 0.0  |
| 19     | 0.0                          | 0.0  | 0.0  | 0.11 | 0.0  | 0.0                             | 0.0  | 0.0  | 3.19 | 0.0          | 0.0  | 0.0  |
| 20     | 0.0                          | 0.0  | 0.0  | 1.03 | 0.06 | 0.0                             | 0.0  | 0.0  | 0.18 | 0.0          | 0.0  | 0.0  |
| 21     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.42 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 22     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 1.50 | 0.50 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.45 | 0.02 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.23 | 0.0          | 0.36 | 0.0  |
| 26     | 0.0                          | 0.0  | 0.0  | 0.05 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.07 | 0.0          | 0.84 | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.45 | 0.0  | 0.27                            | 0.0  | 0.0  | 0.20 | 0.0          | 1.26 | 0.0  |
| 28     | 0.0                          | 0.70 | 0.0  | 0.12 | 0.0  | 0.0                             | 1.31 | 0.0  | 0.0  | 0.0          | 0.0  | 0.19 |
| 29     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.06 | 0.0          | 0.0  | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.14 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.09 | 0.0          | 0.0  | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| TOTAL  | 0.22                         | 2.06 | 1.09 | 4.59 | 2.20 | 1.01                            | 2.34 | 2.58 | 5.95 | 1.64         | 3.69 | 3.73 |
| STA AV | 1.80                         | 1.76 | 2.37 | 4.01 | 3.17 | 3.79                            | 3.54 | 2.80 | 2.63 | 2.67         | 2.11 | 1.75 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 18 yr period (1949-66), part year records included.

| 1967   | DAILY PRECIPITATION (inches) |      |      |      |      | MONTICELLO, ILLINOIS (ALLERTON) |      |      |      | WATERSHED IA |      |      |
|--------|------------------------------|------|------|------|------|---------------------------------|------|------|------|--------------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                             | Jul  | Aug  | Sep  | Oct          | Nov  | Dec  |
| 1      | 0.0                          | 0.77 | 0.0  | 0.0  | 0.79 | 0.08                            | 0.0  | 0.0  | 0.0  | 0.0          | 0.19 | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.02 | 2.00 |
| 3      | 0.0                          | 0.0  | 0.0  | 0.05 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.68 | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.06 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 5      | 0.0                          | 0.07 | 0.60 | 0.13 | 0.47 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.21         | 0.0  | 0.49 |
| 6      | 0.10                         | 0.0  | 0.17 | 0.0  | 1.42 | 0.24                            | 0.0  | 0.0  | 0.0  | 0.05         | 0.0  | 0.13 |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.21 | 0.0                             | 0.0  | 0.02 | 0.0  | 0.0          | 0.0  | 0.0  |
| 8      | 0.0                          | 0.0  | 0.11 | 0.0  | 0.0  | 0.35                            | 0.0  | 0.61 | 0.0  | 0.43         | 0.0  | 0.0  |
| 9      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.60                            | 0.11 | 0.0  | 0.0  | 0.14         | 0.0  | 0.52 |
| 10     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.12 | 0.37                            | 0.0  | 0.0  | 0.0  | 0.0          | 0.15 | 0.18 |
| 11     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.18 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.20 | 0.85 |
| 12     | 0.0                          | 0.0  | 0.0  | 0.23 | 0.0  | 0.40                            | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.09 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.31         | 0.05 | 0.0  |
| 14     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.20 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 15     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.29         | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.19 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.85         | 0.0  | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.13 | 0.0  | 0.06 | 0.08         | 0.27 | 0.25 |
| 18     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.88 | 1.50 | 0.0          | 0.0  | 0.0  |
| 19     | 0.0                          | 0.0  | 0.28 | 0.0  | 0.0  | 0.0                             | 0.20 | 0.44 | 0.33 | 0.0          | 0.0  | 0.0  |
| 20     | 0.0                          | 0.0  | 1.09 | 0.11 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.13 | 0.0          | 0.0  | 0.13 |
| 21     | 0.0                          | 0.0  | 0.0  | 0.18 | 0.0  | 0.60                            | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 1.61 |
| 22     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.10 | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.20 | 0.0  | 0.0                             | 1.41 | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 24     | 0.36                         | 0.96 | 0.0  | 0.0  | 0.0  | 0.0                             | 0.14 | 0.0  | 0.0  | 0.46         | 0.0  | 0.0  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.20 | 0.0  | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.11 |
| 26     | 1.38                         | 0.0  | 0.21 | 0.04 | 0.0  | 0.0                             | 0.57 | 0.81 | 0.30 | 0.18         | 0.0  | 0.0  |
| 27     | 0.58                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                             | 0.0  | 0.0  | 0.43 | 0.09         | 0.0  | 0.11 |
| 28     | 0.0                          | 0.16 | 0.0  | 0.0  | 0.28 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.0          | 0.0  | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 0.26 | 0.08 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.22         | 0.04 | 0.0  |
| 30     | 0.10                         | 0.0  | 0.0  | 0.0  | 1.63 | 0.0                             | 0.0  | 0.0  | 0.0  | 0.60         | 0.41 | 0.08 |
| 31     | 0.0                          | 0.0  | 0.03 | 0.0  | 0.02 | 0.0                             | 0.17 | 0.0  | 0.0  | 0.20         | 0.0  | 0.0  |
| TOTAL  | 2.52                         | 1.06 | 2.49 | 1.74 | 5.40 | 2.64                            | 2.73 | 2.76 | 2.75 | 4.11         | 2.11 | 6.46 |
| STA AV | 1.84                         | 1.72 | 2.38 | 3.88 | 3.30 | 3.72                            | 3.49 | 2.80 | 2.63 | 2.74         | 2.11 | 2.00 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 19 yr period (1949-67), part year records included.



| 1968 DAILY PRECIPITATION (inches) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.03 | 1.46 | 0.0  | 0.0  | 0.0  | 0.28 | 0.15 | 0.0  | 0.35 | 0.0  | 0.0  | 0.0  |
| 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.06 | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 1.70 | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.07 | 0.0  |
| 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.0  | 0.0  | 0.0  | 0.0  |
| 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  |
| 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |
| 8  | 0.15 | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 9  | 0.05 | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.27 | 0.52 | 0.0  | 0.15 | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.15 | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12   | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13   | 0.40 | 0.0  | 0.0  | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14   | 0.28 | 0.0  | 0.0  | 0.92 | 0.0  | 2.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  |
| 15   | 0.08 | 0.0  | 0.70 | 0.0  | 1.23 | 1.72 | 0.50 | 0.0  | 0.0  | 0.0  | 1.46 | 0.0  |
| 16   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.15 | 0.0  | 0.12 | 0.0  |
| 17   | 0.0  | 0.0  | 0.0  | 0.75 | 0.0  | 0.0  | 0.36 | 0.0  | 0.89 | 0.0  | 0.37 | 0.0  |
| 18   | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 |
| 19   | 0.0  | 0.0  | 0.41 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.86 | 0.0  | 0.0  | 0.10 |
| 20   | 0.0  | 0.0  | 0.98 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21   | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22   | 0.0  | 0.0  | 0.0  | 0.0  | 1.49 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 |
| 23   | 0.0  | 0.0  | 0.0  | 0.0  | 1.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.83 | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25   | 0.0  | 0.0  | 0.0  | 0.0  | 0.78 | 1.04 | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 26   | 0.0  | 0.0  | 0.0  | 0.30 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27   | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.37 | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 |
| 28   | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.80 | 0.32 |
| 29   | 0.40 | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 |
| 31   | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| TOTAL  | 2.11 | 1.46 | 1.35 | 3.77 | 6.76 | 6.10 | 2.18 | 1.37 | 2.34 | 0.26 | 4.29 | 1.67 |
| STA AV   | 1.85 | 1.71 | 2.32 | 3.88 | 3.48 | 3.85 | 3.43 | 2.73 | 2.62 | 2.62 | 2.22 | 1.98 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 20 yr period (1949-68), part year records included.

| 1969 DAILY PRECIPITATION (inches) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 | 0.0  | 0.10 | 0.0  |
| 5  | 0.30 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.89 | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  |
| 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8  | 0.0  | 0.92 | 0.40 | 0.10 | 0.30 | 0.10 | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9  | 0.0  | 0.0  | 0.0  | 0.50 | 0.10 | 0.0  | 0.23 | 1.75 | 0.0  | 0.0  | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.78 | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.38 | 0.0  | 0.10 |
| 12   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.94 | 0.0  | 0.0  |
| 13   | 0.0  | 0.0  | 0.0  | 0.27 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.0  |
| 14   | 0.0  | 0.0  | 0.0  | 0.98 | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 15   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16   | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 3.80 | 0.0  | 0.0  | 0.0  |
| 17   | 0.35 | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.95 | 0.0  |
| 18   | 0.0  | 0.0  | 0.0  | 1.04 | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.65 | 0.0  |
| 19   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  |
| 20   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |
| 21   | 0.0  | 0.0  | 0.0  | 0.08 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 |
| 22   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.45 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 |
| 23   | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.75 | 0.0  | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 26   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.41 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27   | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.13 | 0.21 | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  |
| 28   | 0.97 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 29   | 0.65 | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30   | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 |
| 31   | 0.0  | 0.0  | 0.0  | 0.0  | 0.36 | 0.0  | 0.11 | 0.0  | 0.0  | 0.39 | 0.0  | 0.05 |
| TOTAL  | 3.00 | 1.02 | 0.40 | 3.29 | 1.45 | 1.09 | 3.07 | 2.02 | 6.92 | 4.93 | 2.73 | 0.55 |
| STA AV   | 1.91 | 1.67 | 2.23 | 3.85 | 3.38 | 3.71 | 3.41 | 2.69 | 2.83 | 2.73 | 2.25 | 1.92 |

NOTES: Precipitation data are from the R-1 gage. STA AV based on 21 yr period (1949-69), part year records included.



| 1960 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |       |       |       |       |       |        |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | T     | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.001  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.305  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0102 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.089  | 0.000 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.165 | 0.276 | 0.092 | 0.111 | 0.047 | 0.185  | 0.139 | 0.015 | 0.002 | 0.140 | 0.004 | 0.066 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 12 yr period (1949-60), part year records included.

| 1961 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |       |       |       |       |        |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr   | May    | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.001  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0   | 0.0   | 0.0   | 0.0   | 5.360  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0   | T     | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.0   | T      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1729 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.0   | 0.000 | 0.0   | 0.000 | 1.556  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.152 | 0.253 | 0.084 | 0.102 | 0.173  | 0.170 | 0.128 | 0.014 | 0.002 | 0.129 | 0.003 | 0.061 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 13 yr period (1949-61), part year records included.

| 1962   | MEAN DAILY DISCHARGE (cfs) |        |        |       |        | MONTICELLO, ILLINOIS (ALLERTON) |        |        |       |       | WATERSHED IA |       |  |
|--------|----------------------------|--------|--------|-------|--------|---------------------------------|--------|--------|-------|-------|--------------|-------|--|
| Day    | Jan                        | Feb    | Mar    | Apr   | May    | Jun                             | Jul    | Aug    | Sep   | Oct   | Nov          | Dec   |  |
| 1      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 2      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 3      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 4      | 0.0                        | 0.037  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 5      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.008  | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 6      | 0.002                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 7      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 8      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.003  | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 9      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 10     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.010  | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 11     | 0.0                        | 0.0    | 0.006  | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 12     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 13     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 14     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 15     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.112  | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 16     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 17     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 18     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 19     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 20     | 0.0                        | 0.0    | 1.059  | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 21     | 0.0                        | 0.0    | 0.521  | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 22     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.014  | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 23     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 24     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 25     | 0.0                        | 0.071  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 26     | 0.001                      | 0.170  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 27     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 28     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 29     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 30     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 31     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0    | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| MEAN   | 0.0001                     | 0.0099 | 0.0511 | 0.0   | 0.0004 | 0.0                             | 0.0041 | 0.0003 | 0.0   | 0.0   | 0.0          | 0.0   |  |
| INCHES | 0.001                      | 0.081  | 0.460  | 0.0   | 0.004  | 0.0                             | 0.037  | 0.002  | 0.0   | 0.0   | 0.0          | 0.0   |  |
| STA AV | 0.140                      | 0.240  | 0.113  | 0.094 | 0.160  | 0.157                           | 0.121  | 0.013  | 0.002 | 0.120 | 0.003        | 0.057 |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 14 yr period (1949-62), part year records included.

| 1963   | MEAN DAILY DISCHARGE (cfs) |       |        |        |       | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       |       | WATERSHED IA |       |  |
|--------|----------------------------|-------|--------|--------|-------|---------------------------------|-------|-------|-------|-------|--------------|-------|--|
| Day    | Jan                        | Feb   | Mar    | Apr    | May   | Jun                             | Jul   | Aug   | Sep   | Oct   | Nov          | Dec   |  |
| 1      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 2      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 3      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 4      | 0.0                        | 0.0   | 0.041  | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 5      | 0.0                        | 0.0   | 2.284  | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 6      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 7      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 8      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 9      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 10     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 11     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 12     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 13     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 14     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 15     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 16     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 17     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 18     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 19     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 20     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 21     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 22     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 23     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 24     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 25     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 26     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 27     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 28     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 29     | 0.0                        | 0.0   | 0.0    | 0.019  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 30     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 31     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| MEAN   | 0.0                        | 0.0   | 0.0750 | 0.0006 | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| INCHES | 0.0                        | 0.0   | 0.675  | 0.005  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| STA AV | 0.130                      | 0.223 | 0.153  | 0.088  | 0.149 | 0.146                           | 0.112 | 0.012 | 0.001 | 0.112 | 0.003        | 0.053 |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 15 yr period (1949-63), part year records included.

| 1964 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSRED IA |       |       |        |        |       |        |        |       |       |       |       |       |
|--|-------|-------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar    | Apr    | May   | Jun    | Jul    | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0   | 0.0   | 0.0    | 0.222  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0   | 0.0   | 0.0    | 0.006  | 0.0   | 0.0    | 0.078  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0   | 0.0   | 0.175  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0    | 1.178  | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0    | 5.575  | 0.0   | 0.582  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.061  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0   | 0.0   | 0.0976 | 0.2327 | 0.0   | 0.0194 | 0.0025 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.0   | 0.0   | 0.068  | 2.026  | 0.0   | 0.169  | 0.023  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.121 | 0.208 | 0.148  | 0.217  | 0.139 | 0.147  | 0.106  | 0.011 | 0.001 | 0.105 | 0.003 | 0.049 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 16 yr period (1949-64), part year records included.

| 1965 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSRED IA |       |       |       |        |       |       |       |       |        |       |       |       |
|--|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr    | May   | Jun   | Jul   | Aug   | Sep    | Oct   | Nov   | Dec   |
| 1  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.001 | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 3  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 5  | 0.0   | 0.0   | 0.0   | 0.382  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 6  | 0.0   | 0.0   | 0.0   | 0.029  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 8  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 9  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 10   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0   | 0.274  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0   | 0.016  | 0.0   | 0.0   | 0.0   | 0.0   | 0.002  | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.007  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.003  | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.016  | 0.0   | 0.0   | 0.0   |
| 23   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 24   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.0   | 0.001  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 26   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 27   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 29   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 30   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0   | 0.0   | 0.0   | 0.0236 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0007 | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.0   | 0.0   | 0.0   | 0.206  | 0.0   | 0.000 | 0.0   | 0.0   | 0.006  | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.114 | 0.195 | 0.138 | 0.216  | 0.130 | 0.138 | 0.099 | 0.010 | 0.002  | 0.099 | 0.003 | 0.047 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 17 yr period (1949-65), part year records included.

| 1966   | MEAN DAILY DISCHARGE (cfs) |       |       |        |       | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       |       | WATERSHED IA |       |        |
|--------|----------------------------|-------|-------|--------|-------|---------------------------------|-------|-------|-------|-------|--------------|-------|--------|
| Day    | Jan                        | Feb   | Mar   | Apr    | May   | Jun                             | Jul   | Aug   | Sep   | Oct   | Nov          | Dec   |        |
| 1      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 2      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 3      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 4      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 5      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 6      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 7      | 0.0                        | 0.0   | T     | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.875  |
| 8      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.101  |
| 9      | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 10     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 11     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 12     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 13     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 14     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 15     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 16     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 17     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 18     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 19     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 20     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 21     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 22     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 23     | 0.0                        | 0.0   | 0.0   | 0.103  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 24     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 25     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 26     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 27     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 28     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 29     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 30     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 31     | 0.0                        | 0.0   | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| MEAN   | 0.0                        | 0.0   | 0.0   | 0.0034 | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0315 |
| INCHES | 0.0                        | 0.000 | 0.0   | 0.030  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.283  |
| STA AV | 0.107                      | 0.184 | 0.130 | 0.205  | 0.122 | 0.130                           | 0.093 | 0.010 | 0.002 | 0.093 | 0.002        | 0.002 | 0.060  |

NOTES: To convert CPS to IN/DAY, multiply by 0.290264. STA AV based on 18 yr period (1949-66), part year records included.

| 1967   | MEAN DAILY DISCHARGE (cfs) |        |        |       |        | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       |       | WATERSHED IA |       |        |
|--------|----------------------------|--------|--------|-------|--------|---------------------------------|-------|-------|-------|-------|--------------|-------|--------|
| Day    | Jan                        | Feb    | Mar    | Apr   | May    | Jun                             | Jul   | Aug   | Sep   | Oct   | Nov          | Dec   |        |
| 1      | 0.0                        | 0.008  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 2      | 0.0                        | 0.002  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.010  |
| 3      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 4      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 5      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 6      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.001  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 7      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.016  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 8      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | T     | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 9      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.002                           | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.003  |
| 10     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.523  |
| 11     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 12     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.057  |
| 13     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 14     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 15     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 16     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 17     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 18     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 19     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 20     | 0.0                        | 0.0    | 0.014  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 21     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 2.176  |
| 22     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 23     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 24     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 25     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 26     | 0.325                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 27     | 0.0                        | 0.0    | 0.0    | 0.0   | T      | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 28     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 29     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 30     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| 31     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0    |
| MEAN   | 0.0105                     | 0.0003 | 0.0005 | 0.0   | 0.0005 | 0.0001                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.0893 |
| INCHES | 0.094                      | 0.003  | 0.004  | 0.000 | 0.005  | 0.001                           | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   | 0.804  |
| STA AV | 0.106                      | 0.174  | 0.123  | 0.194 | 0.116  | 0.123                           | 0.088 | 0.009 | 0.001 | 0.089 | 0.002        | 0.002 | 0.099  |

NOTES: To convert CPS to IN/DAY, multiply by 0.290264. STA AV based on 19 yr period (1949-67), part year records included.



| 1968 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |        |       |       |        |        |        |       |       |       |       |       |       |       |
|--|--------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan    | Feb   | Mar   | Apr    | May    | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |       |
| 1  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0    | 0.0   | 0.0   | 0.006  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0    | 0.0   | 0.0   | 0.0    | T      | 0.0    | 0.012 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0    | 0.0   | 0.0   | 0.0    | 0.006  | 0.0    | 1.812 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17   | 0.0    | 0.0   | 0.0   | 0.0    | T      | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | T      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.0    | 0.0   | 0.0   | 0.0    | 0.366  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0    | 0.0   | 0.0   | 0.0    | 0.004  | 0.027  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.058  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.0    | T     | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.001  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0019 | 0.0   | 0.0   | 0.0002 | 0.0121 | 0.0617 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.017  | 0.0   | 0.0   | 0.002  | 0.109  | 0.537  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.102  | 0.164 | 0.117 | 0.184  | 0.115  | 0.145  | 0.084 | 0.009 | 0.001 | 0.084 | 0.002 | 0.094 | 0.094 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 20 yr period (1949-68), part year records included.

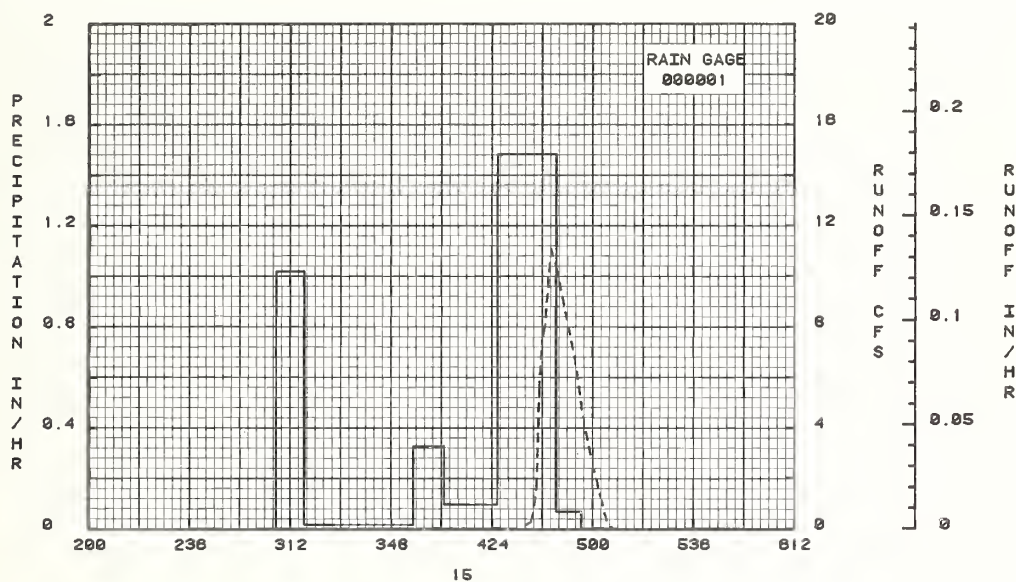
| 1969 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |        |        |       |       |       |       |       |       |       |        |        |       |       |
|--|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| Day  | Jan    | Feb    | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct    | Nov    | Dec   |       |
| 1  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 2  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 3  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 4  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 5  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 6  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 7  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 8  | 0.0    | 0.093  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 9  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 10   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 11   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 12   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 13   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.003  | 0.0    | 0.0   | 0.0   |
| 14   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 15   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 16   | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 17   | 0.025  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.001  | 0.0   | 0.0   |
| 18   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.040  | 0.0   | 0.0   |
| 19   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 20   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 21   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 22   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 23   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 24   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 25   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 26   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 27   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 28   | 0.099  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 29   | 0.318  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 30   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| 31   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   |
| MEAN   | 0.0143 | 0.0033 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0001 | 0.0014 | 0.0   | 0.0   |
| INCHES   | 0.129  | 0.027  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.001  | 0.012  | 0.0   | 0.0   |
| STA AV   | 0.103  | 0.158  | 0.111 | 0.174 | 0.110 | 0.137 | 0.079 | 0.008 | 0.001 | 0.080  | 0.003  | 0.089 | 0.089 |

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 21 yr period (1949-69), part year records included.



| 1962  | SELECTED RUNOFF EVENT |                    |                | MONTICELLO, ILLINOIS (ALLERTON) |                      |                  |                | WATERSHED 1A   |               |                  |
|---|-----------------------|--------------------|----------------|---------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                       |                    | RAINFALL       |                                 |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches)  | Rnnoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                  | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF JULY 15, 1962  |                       |                    |                |                                 |                      |                  |                |                |               |                  |
| 7-15  | RG 000001<br>0.41     | 0.002              | 7-15           | RG 000001                       |                      |                  |                |                |               |                  |
|   |                       |                    |                | 307                             | 0.0                  | 0.0              | 7-15           | 239            | 0.0           | 0.0              |
|   |                       |                    |                | 317                             | 1.0200               | 0.17             |                | 318            | 0.003         | 0.0              |
|   |                       |                    |                | 356                             | 0.0154               | 0.18             |                | 321            | 0.007         | 0.0              |
|   |                       |                    |                | 407                             | 0.3273               | 0.24             |                | 325            | 0.0           | 0.0              |
|   |                       |                    |                | 426                             | 0.0947               | 0.27             |                | 432            | 0.005         | 0.0001           |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |                       |                    |                | 447                             | 1.4857               | 0.79             |                | 434            | 0.031         | 0.0001           |
|   |                       |                    |                | 456                             | 0.0666               | 0.80             |                | 438            | 0.262         | 0.0002           |
|   |                       |                    |                |                                 |                      |                  |                | 439            | 0.646         | 0.0003           |
|   |                       |                    |                |                                 |                      |                  |                | 440            | 1.678         | 0.0005           |
|   |                       |                    |                |                                 |                      |                  |                | 441            | 5.833         | 0.0013           |
|   |                       |                    |                |                                 |                      |                  |                | 442            | 7.594         | 0.0026           |
|   |                       |                    |                |                                 |                      |                  |                | 443            | 8.097         | 0.0042           |
|   |                       |                    |                |                                 |                      |                  |                | 445            | 11.077        | 0.0081           |
|   |                       |                    |                |                                 |                      |                  |                | 447            | 10.328        | 0.0124           |
|   |                       |                    |                |                                 |                      |                  |                | 454            | 6.502         | 0.0243           |
|   |                       |                    |                |                                 |                      |                  |                | 457            | 4.102         | 0.0275           |
|   |                       |                    |                |                                 |                      |                  |                | 500            | 2.531         | 0.0295           |
|   |                       |                    |                |                                 |                      |                  |                | 503            | 1.187         | 0.0306           |
|   |                       |                    |                |                                 |                      |                  |                | 505            | 0.310         | 0.0309           |
|   |                       |                    |                |                                 |                      |                  |                | 507            | 0.0           | 0.0310           |

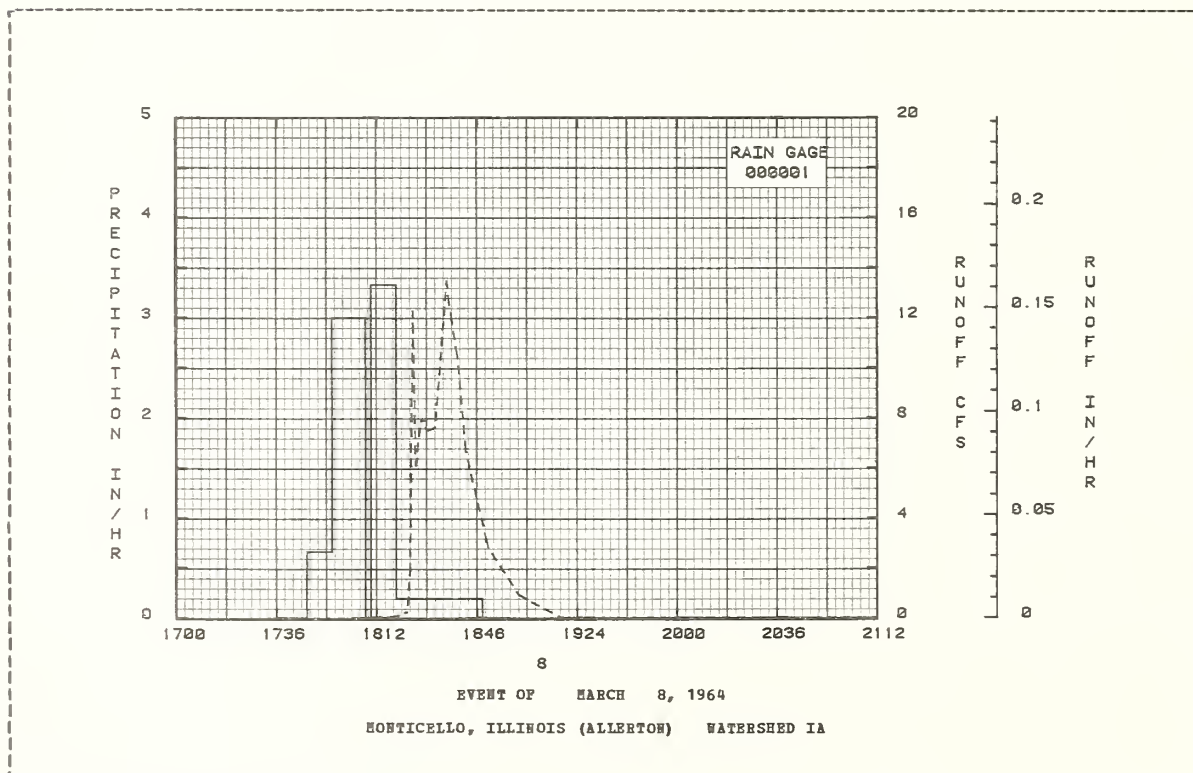
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



EVENT OF JULY 15, 1962  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A

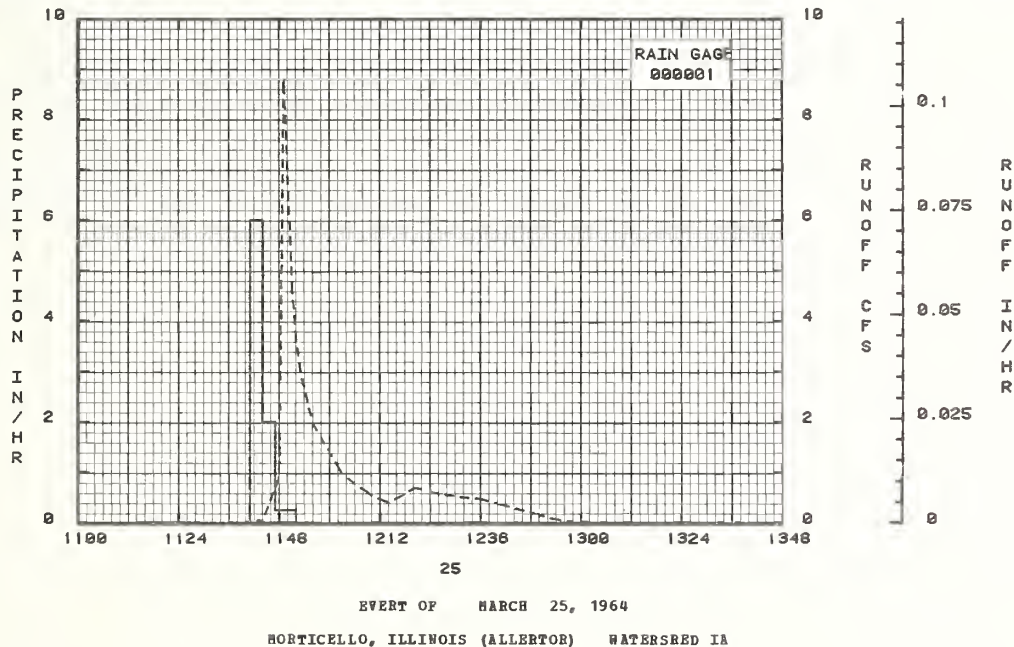
| 1964 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED 1A |        |        |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           |          | RUNOFF       |        |        |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF MARCH 8, 1964  |          |          |                                 |        |           |          |              |        |        |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |              |        |        |          |
| 3- 8  | 0.0      | 0.0      | 3- 8                            | 1747   | 0.0       | 0.0      | 3- 8         | 1803   | 0.0    | 0.0      |
|   |          |          |                                 | 1756   | 0.6667    | 0.10     |              | 1805   | 0.024  | 0.0      |
|   |          |          |                                 | 1808   | 3.0000    | 0.70     |              | 1806   | 0.023  | 0.0      |
|   |          |          |                                 | 1810   | 0.0       | 0.70     |              | 1811   | 0.036  | 0.0      |
|   |          |          |                                 | 1819   | 3.3333    | 1.20     |              | 1813   | 0.058  | 0.0001   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |          |          |                                 | 1850   | 0.1935    | 1.30     |              | 1814   | 0.032  | 0.0001   |
|   |          |          |                                 |        |           |          |              | 1816   | 0.037  | 0.0001   |
|   |          |          |                                 |        |           |          |              | 1820   | 0.102  | 0.0001   |
|   |          |          |                                 |        |           |          |              | 1822   | 0.217  | 0.0002   |
|   |          |          |                                 |        |           |          |              | 1823   | 0.235  | 0.0002   |
|   |          |          |                                 |        |           |          |              | 1824   | 1.881  | 0.0005   |
|   |          |          |                                 |        |           |          |              | 1825   | 12.279 | 0.0019   |
|   |          |          |                                 |        |           |          |              | 1826   | 6.097  | 0.0037   |
|   |          |          |                                 |        |           |          |              | 1828   | 7.885  | 0.0066   |
|   |          |          |                                 |        |           |          |              | 1829   | 7.907  | 0.0081   |
|   |          |          |                                 |        |           |          |              | 1830   | 7.465  | 0.0097   |
|   |          |          |                                 |        |           |          |              | 1833   | 7.635  | 0.0143   |
|   |          |          |                                 |        |           |          |              | 1837   | 13.490 | 0.0228   |
|   |          |          |                                 |        |           |          |              | 1838   | 12.504 | 0.0254   |
|   |          |          |                                 |        |           |          |              | 1839   | 11.736 | 0.0278   |
|   |          |          |                                 |        |           |          |              | 1841   | 10.364 | 0.0323   |
|   |          |          |                                 |        |           |          |              | 1844   | 6.607  | 0.0374   |
|   |          |          |                                 |        |           |          |              | 1852   | 2.821  | 0.0450   |
|   |          |          |                                 |        |           |          |              | 1903   | 0.922  | 0.0492   |
|   |          |          |                                 |        |           |          |              | 1918   | 0.012  | 0.0506   |
|   |          |          |                                 |        |           |          |              | 1923   | 0.0    | 0.0506   |
|   |          |          |                                 |        |           |          |              | 1926   | 0.0    | 0.0506   |
|   |          |          |                                 |        |           |          |              | 1933   | 0.007  | 0.0506   |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



| 1964 SELECTED RUNOFF EVENT  |                      |                    | MORTICELLO, ILLINOIS (ALLERTON) |                |                      |                  | WATERSHED 1A   |                |               |                  |
|---|----------------------|--------------------|---------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                        |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                  | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MARCH 25, 1964   |                      |                    |                                 |                |                      |                  |                |                |               |                  |
| RG 000001   |                      |                    | RG 000001                       |                |                      |                  |                |                |               |                  |
| 3-25  | 0.77                 | 0.000              | 3-25                            | 1141           | 0.0                  | 0.0              | 3-25           | 1140           | 0.008         | 0.0              |
|   |                      |                    |                                 | 1144           | 6.0000               | 0.30             |                | 1141           | 0.027         | 0.0              |
|   |                      |                    |                                 | 1147           | 2.0000               | 0.40             |                | 1143           | 0.046         | 0.0              |
|   |                      |                    |                                 | 1152           | 0.2400               | 0.42             |                | 1144           | 0.032         | 0.0              |
|   |                      |                    |                                 |                |                      |                  |                | 1148           | 0.902         | 0.0004           |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |                      |                    |                                 |                |                      |                  |                | 1149           | 8.806         | 0.0014           |
|   |                      |                    |                                 |                |                      |                  |                | 1151           | 4.691         | 0.0041           |
|   |                      |                    |                                 |                |                      |                  |                | 1152           | 3.601         | 0.0049           |
|   |                      |                    |                                 |                |                      |                  |                | 1153           | 2.991         | 0.0056           |
|   |                      |                    |                                 |                |                      |                  |                | 1156           | 1.964         | 0.0071           |
|   |                      |                    |                                 |                |                      |                  |                | 1203           | 0.955         | 0.0091           |
|   |                      |                    |                                 |                |                      |                  |                | 1210           | 0.534         | 0.0102           |
|   |                      |                    |                                 |                |                      |                  |                | 1214           | 0.395         | 0.0106           |
|   |                      |                    |                                 |                |                      |                  |                | 1216           | 0.475         | 0.0107           |
|   |                      |                    |                                 |                |                      |                  |                | 1220           | 0.683         | 0.0112           |
|   |                      |                    |                                 |                |                      |                  |                | 1222           | 0.659         | 0.0115           |
|   |                      |                    |                                 |                |                      |                  |                | 1226           | 0.557         | 0.0120           |
|   |                      |                    |                                 |                |                      |                  |                | 1236           | 0.458         | 0.0130           |
|   |                      |                    |                                 |                |                      |                  |                | 1241           | 0.353         | 0.0134           |
|   |                      |                    |                                 |                |                      |                  |                | 1248           | 0.201         | 0.0138           |
|   |                      |                    |                                 |                |                      |                  |                | 1251           | 0.122         | 0.0139           |
|   |                      |                    |                                 |                |                      |                  |                | 1255           | 0.039         | 0.0139           |
|   |                      |                    |                                 |                |                      |                  |                | 1301           | 0.0           | 0.0140           |
|   |                      |                    |                                 |                |                      |                  |                | 1306           | 0.0           | 0.0140           |
|   |                      |                    |                                 |                |                      |                  |                | 1311           | 0.005         | 0.0140           |

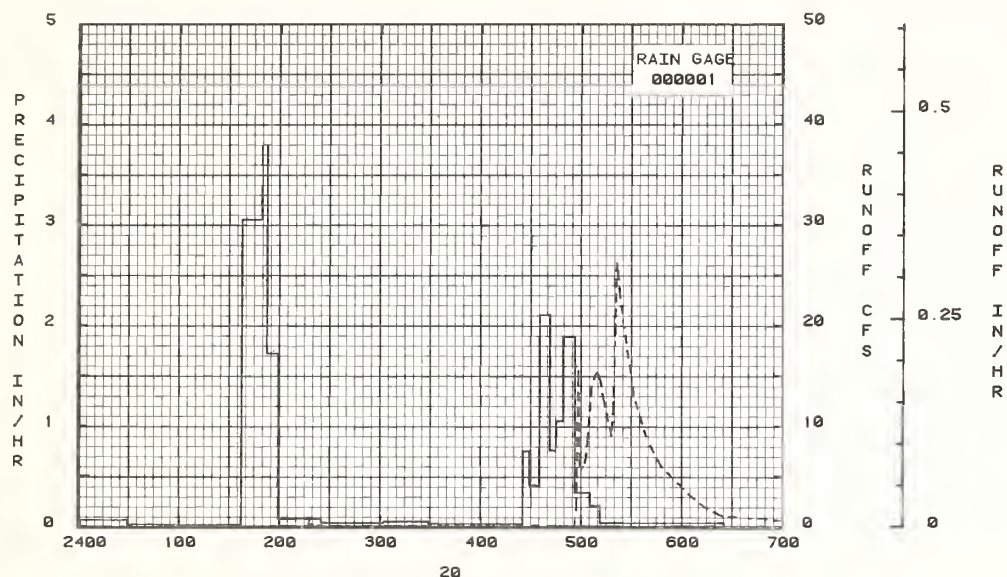
NOTES: To convert runoff in CFS to IN/DA, multiply by 0.012094.



| 1964 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED 1A |        |        |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           |          | RUNOFF       |        |        |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF JUNE 19 - 20, 1964   |          |          |                                 |        |           |          |              |        |        |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |              |        |        |          |
| 6-20  | 0.0      | 0.0      | 6-20                            | 1      | 0.0       | 0.0      | 6-20         | 217    | 0.0    | 0.0      |
|   |          |          |                                 | 29     | 0.0643    | 0.03     |              | 218    | 0.644  | 0.0      |
|   |          |          |                                 | 137    | 0.0177    | 0.05     |              | 219    | 0.205  | 0.0001   |
|   |          |          |                                 | 149    | 3.0500    | 0.66     |              | 220    | 0.170  | 0.0002   |
|   |          |          |                                 | 152    | 3.8000    | 0.85     |              | 223    | 0.088  | 0.0002   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |          |          |                                 | 159    | 1.7143    | 1.05     |              | 226    | 0.017  | 0.0003   |
|   |          |          |                                 | 225    | 0.0692    | 1.08     |              | 232    | 0.0    | 0.0003   |
|   |          |          |                                 | 302    | 0.0324    | 1.10     |              | 341    | 0.0    | 0.0003   |
|   |          |          |                                 | 329    | 0.0445    | 1.12     |              | 445    | 0.009  | 0.0003   |
|   |          |          |                                 | 425    | 0.0214    | 1.14     |              | 447    | 0.034  | 0.0003   |
|   |          |          |                                 | 429    | 0.7500    | 1.19     |              | 448    | 0.047  | 0.0004   |
|   |          |          |                                 | 435    | 0.4001    | 1.23     |              | 450    | 0.037  | 0.0004   |
|   |          |          |                                 | 441    | 2.0999    | 1.44     |              | 452    | 0.013  | 0.0004   |
|   |          |          |                                 | 445    | 0.7500    | 1.49     |              | 456    | 0.103  | 0.0004   |
|   |          |          |                                 | 449    | 1.0499    | 1.56     |              | 457    | 2.084  | 0.0006   |
|   |          |          |                                 | 456    | 1.8857    | 1.78     |              | 458    | 15.444 | 0.0024   |
|   |          |          |                                 | 505    | 0.3334    | 1.83     |              | 459    | 5.829  | 0.0046   |
|   |          |          |                                 | 511    | 0.2000    | 1.85     |              | 500    | 5.711  | 0.0057   |
|   |          |          |                                 | 625    | 0.0324    | 1.89     |              | 501    | 5.927  | 0.0069   |
|   |          |          |                                 |        |           |          |              | 502    | 6.309  | 0.0081   |
|   |          |          |                                 |        |           |          |              | 503    | 7.280  | 0.0095   |
|   |          |          |                                 |        |           |          |              | 504    | 9.303  | 0.0112   |
|   |          |          |                                 |        |           |          |              | 506    | 13.898 | 0.0158   |
|   |          |          |                                 |        |           |          |              | 508    | 14.931 | 0.0217   |
|   |          |          |                                 |        |           |          |              | 509    | 15.258 | 0.0247   |
|   |          |          |                                 |        |           |          |              | 510    | 15.033 | 0.0277   |
|   |          |          |                                 |        |           |          |              | 512    | 13.877 | 0.0336   |
|   |          |          |                                 |        |           |          |              | 513    | 12.625 | 0.0362   |
|   |          |          |                                 |        |           |          |              | 518    | 8.874  | 0.0471   |
|   |          |          |                                 |        |           |          |              | 519    | 11.596 | 0.0491   |
|   |          |          |                                 |        |           |          |              | 520    | 20.090 | 0.0523   |
|   |          |          |                                 |        |           |          |              | 521    | 26.159 | 0.0570   |
|   |          |          |                                 |        |           |          |              | 522    | 24.431 | 0.0621   |
|   |          |          |                                 |        |           |          |              | 523    | 22.646 | 0.0668   |
|   |          |          |                                 |        |           |          |              | 531    | 13.050 | 0.0956   |
|   |          |          |                                 |        |           |          |              | 539    | 8.659  | 0.1131   |
|   |          |          |                                 |        |           |          |              | 548    | 5.835  | 0.1263   |
|   |          |          |                                 |        |           |          |              | 604    | 3.172  | 0.1408   |
|   |          |          |                                 |        |           |          |              | 615    | 1.720  | 0.1462   |
|   |          |          |                                 |        |           |          |              | 624    | 1.015  | 0.1487   |
|   |          |          |                                 |        |           |          |              | 628    | 0.938  | 0.1495   |
|   |          |          |                                 |        |           |          |              | 637    | 0.848  | 0.1511   |
|   |          |          |                                 |        |           |          |              | 706    | 0.585  | 0.1553   |
|   |          |          |                                 |        |           |          |              | 715    | 0.664  | 0.1564   |
|   |          |          |                                 |        |           |          |              | 720    | 0.709  | 0.1571   |
|   |          |          |                                 |        |           |          |              | 733    | 0.624  | 0.1589   |
|   |          |          |                                 |        |           |          |              | 748    | 0.526  | 0.1606   |
|   |          |          |                                 |        |           |          |              | 848    | 0.228  | 0.1652   |

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.012094.





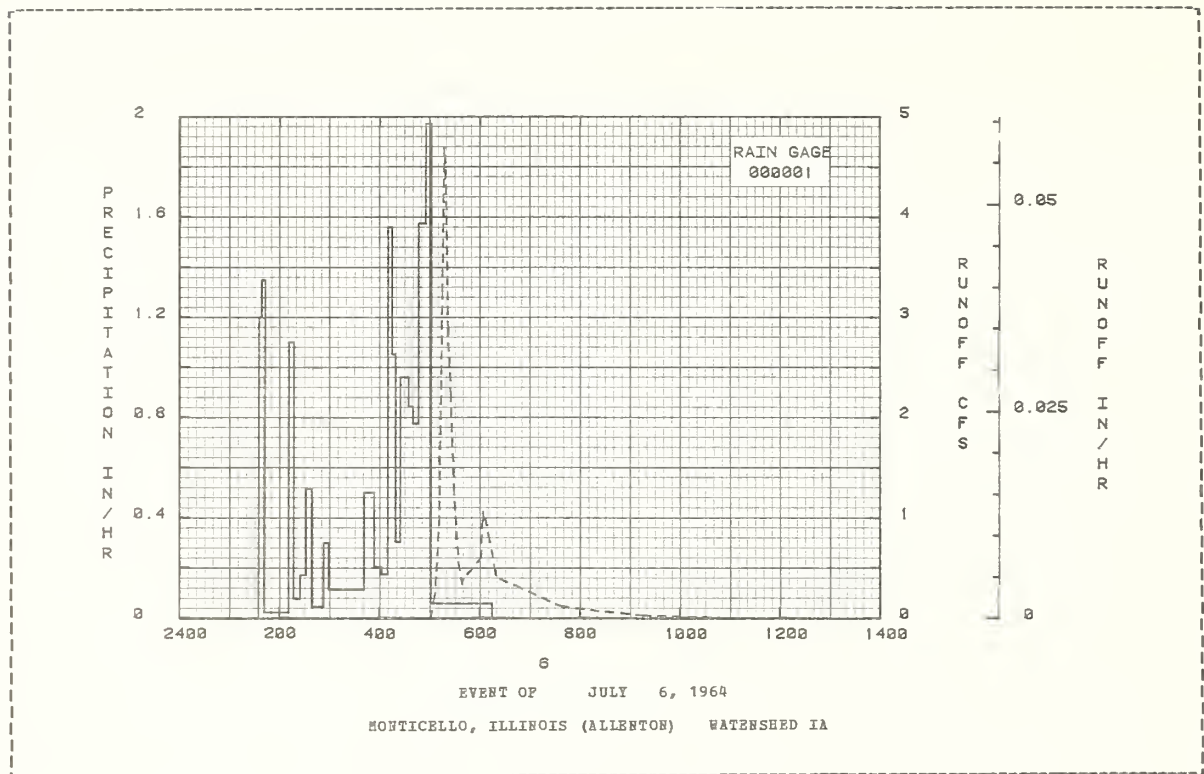
EVENT OF JUNR 19 - 20, 1964  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA

| 1964 SELECTED RUNOFF EVENT |           |          | MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA |           |           |        |        |        |
|----------------------------|-----------|----------|--|-----------|-----------|--------|--------|--------|
| ANTECEDENT CONDITIONS      |           |          | RAINFALL                                     |           |           | RUNOFF |        |        |
| Date                       | Rainfall  | Runoff   | Date   | Time      | Intensity | Date   | Time   | Rate   |
| Mo-Day                     | (inches)  | (inches) | Mo-Day                                       | of Day    | (in/hr)   | Mo-Day | of Day | (cfs)  |
| EVENT OF JULY 6, 1964      |           |          |  |           |           |        |        |        |
| 7- 6                       | RG 000001 | 0.0      | 7- 6   | RG 000001 |           | 7- 6   |        |        |
|                            | 0.0       |          |  | 135       | 0.0       |        | 502    | 0.0    |
|                            |           |          |  | 138       | 1.2000    |        | 507    | 0.246  |
|                            |           |          |  | 142       | 1.3499    |        | 512    | 1.007  |
|                            |           |          |  | 211       | 0.0207    |        | 515    | 3.331  |
|                            |           |          |  | 217       | 1.1000    |        | 517    | 4.691  |
|                            |           |          |  | 225       | 0.0751    |        | 519    | 4.302  |
|                            |           |          |  | 232       | 0.1713    |        | 521    | 3.403  |
|                            |           |          |  | 239       | 0.5144    |        | 522    | 2.808  |
|                            |           |          |  | 253       | 0.0428    |        | 525    | 2.232  |
|                            |           |          |  | 259       | 0.3000    |        | 529    | 1.303  |
|                            |           |          |  | 342       | 0.1116    |        | 535    | 0.537  |
|                            |           |          |  | 354       | 0.5000    |        | 539    | 0.326  |
|                            |           |          |  | 403       | 0.2001    |        | 540    | 0.378  |
|                            |           |          |  | 410       | 0.1713    |        | 602    | 0.599  |
|                            |           |          |  | 415       | 1.5601    |        | 604    | 1.060  |
|                            |           |          |  | 419       | 1.0499    |        | 605    | 0.967  |
|                            |           |          |  | 425       | 0.3001    |        | 607    | 0.991  |
|                            |           |          |  | 435       | 0.9599    |        | 611    | 0.816  |
|                            |           |          |  | 440       | 0.8401    |        | 620    | 0.418  |
|                            |           |          |  | 447       | 0.7714    |        | 625    | 0.383  |
|                            |           |          |  | 455       | 1.5751    |        | 643    | 0.324  |
|                            |           |          |  | 502       | 1.9714    |        | 738    | 0.110  |
|                            |           |          |  | 615       | 0.0575    |        | 916    | 0.015  |
|                            |           |          |  |           |           |        | 1048   | 0.0    |
|                            |           |          |  |           |           |        |        | 0.0225 |

WATERSHED CONDITIONS:  
For cropping information,  
see table, page 61.001-1.

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



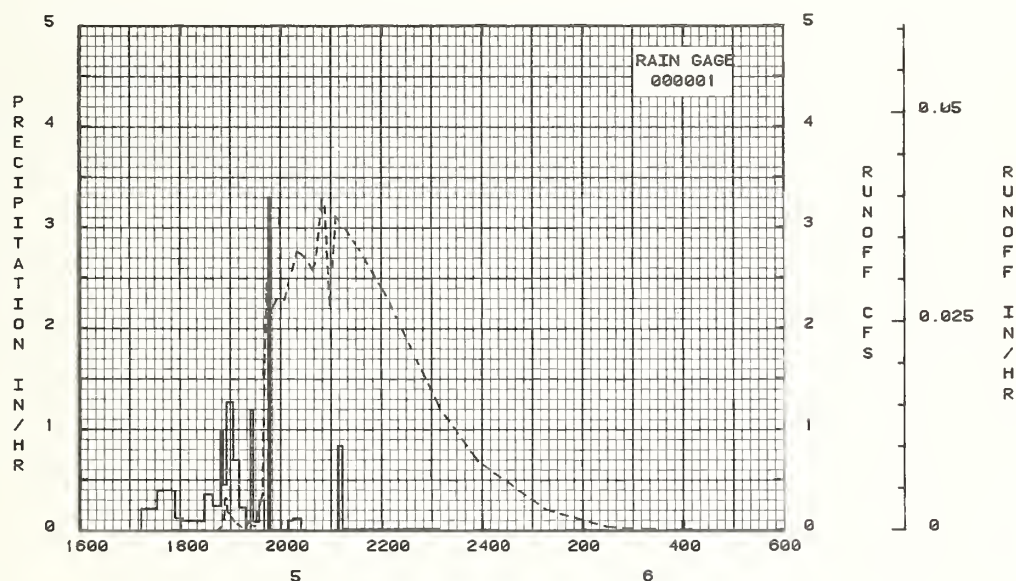


| 1965 SELECTED RUNOFF EVENT                          |          |          | MONTICELLO, ILLINOIS (ALLENTON) WATNSHED IA |        |           |
|---|----------|----------|---|--------|-----------|
| ANTECEDENT CONDITIONS                               |          |          | RAINFALL                                    |        |           |
| Date  | Rainfall | Runoff   | Date  | Time   | Intensity |
| Mo-Day  | (inches) | (inches) | Mo-Day                                      | of Day | (in/hr)   |
| EVENT OF APRIL 5 - 6, 1965                          |          |          |   |        |           |
| NG 000001   |          |          | RG 000001                                   |        |           |
| 4- 5  | 0.83     | 0.000    | 4- 5  | 1713   | 0.0       |
|   |          |          |   | 1732   | 0.2211    |
|   |          |          |   | 1753   | 0.4000    |
|   |          |          |   | 1803   | 0.1200    |
|   |          |          |   | 1828   | 0.0960    |
|   |          |          |   | 1838   | 0.3600    |
|   |          |          |   | 1848   | 0.2400    |
|   |          |          |   | 1851   | 1.0000    |
|   |          |          |   | 1855   | 0.4500    |
|   |          |          |   | 1903   | 1.2750    |
|   |          |          |   | 1910   | 0.6857    |
|   |          |          |   | 1918   | 0.2250    |
|   |          |          |   | 1924   | 0.0       |
|   |          |          |   | 1927   | 1.2000    |
|   |          |          |   | 1934   | 0.0857    |
|   |          |          |   | 1940   | 0.3000    |
|   |          |          |   | 1945   | 0.0       |
|   |          |          |   | 1947   | 3.3000    |
|   |          |          |   | 2008   | 0.0       |
|   |          |          |   | 2014   | 0.1000    |
|   |          |          |   | 2024   | 0.1200    |
|   |          |          |   | 2108   | 0.0       |
|   |          |          |   | 2113   | 0.8400    |
|   |          |          |   | 2228   | 0.0080    |
|   |          |          |   | 2308   | 0.0150    |
| WATNSHED CONDITIONS:                                |          |          |   |        |           |
| For cropping information, see table, page 61.001-1. |          |          |   |        |           |
|   |          |          | RUNOFF                                      |        |           |
|   |          |          | Date  | Time   | Rate      |
|   |          |          | Mo-Day                                      | of Day | (cfs)     |
|   |          |          | 4- 5  | 1735   | 0.0       |
|   |          |          |   | 1746   | 0.003     |
|   |          |          |   | 1749   | 0.008     |
|   |          |          |   | 1753   | 0.009     |
|   |          |          |   | 1756   | 0.007     |
|   |          |          |   | 1759   | 0.004     |
|   |          |          |   | 1802   | 0.002     |
|   |          |          |   | 1822   | 0.0       |
|   |          |          |   | 1835   | 0.002     |
|   |          |          |   | 1838   | 0.003     |
|   |          |          |   | 1844   | 0.005     |
|   |          |          |   | 1846   | 0.015     |
|   |          |          |   | 1849   | 0.035     |
|   |          |          |   | 1852   | 0.112     |
|   |          |          |   | 1853   | 0.317     |
|   |          |          |   | 1855   | 0.322     |
|   |          |          |   | 1856   | 0.180     |
|   |          |          |   | 1858   | 0.168     |
|   |          |          |   | 1901   | 0.131     |
|   |          |          |   | 1904   | 0.087     |
|   |          |          |   | 1908   | 0.060     |
|   |          |          |   | 1913   | 0.032     |
|   |          |          |   | 1919   | 0.050     |
|   |          |          |   | 1922   | 0.087     |
|   |          |          |   | 1925   | 0.047     |
|   |          |          |   | 1928   | 0.036     |
|   |          |          |   | 1938   | 0.365     |
|   |          |          |   | 1940   | 1.441     |
|   |          |          |   | 1943   | 2.452     |
|   |          |          |   | 1944   | 2.114     |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.

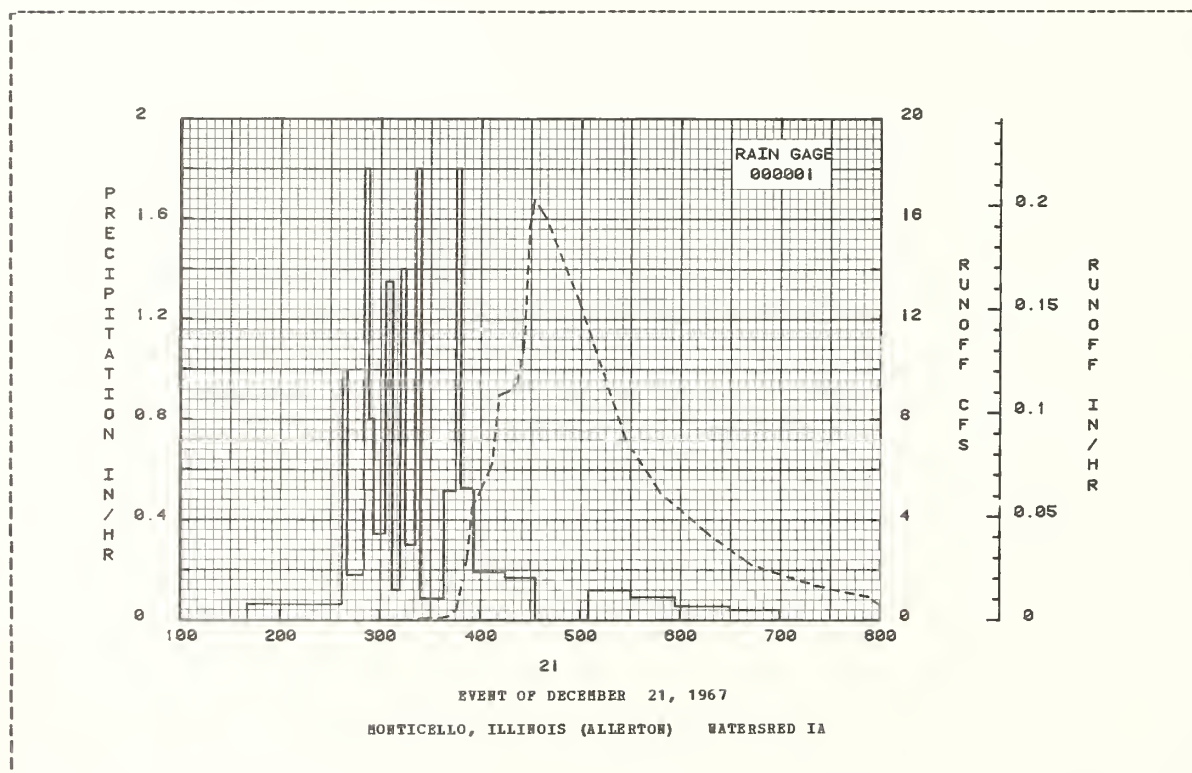
| 1965 SELECTED RUHOFF EVENT             |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED IA |        |       |          |
|--|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|-------|----------|
| ANTECEDENT CONDITIONS                  |          |          | RAINFALL                        |        |           |          | RUHOFF       |        |       |          |
| Date                                   | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate  | Acc.     |
| Mo-Day                                 | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs) | (inches) |
| EVENT OF APRIL 5 - 6, 1965 (CONTINUED) |          |          |                                 |        |           |          |              |        |       |          |
|  |          |          |                                 |        |           |          | 4- 5         | 1946   | 2.150 | 0.0041   |
|  |          |          |                                 |        |           |          |              | 1955   | 2.286 | 0.0081   |
|  |          |          |                                 |        |           |          |              | 2004   | 2.285 | 0.0122   |
|  |          |          |                                 |        |           |          |              | 2019   | 2.757 | 0.0198   |
|  |          |          |                                 |        |           |          |              | 2029   | 2.705 | 0.0254   |
|  |          |          |                                 |        |           |          |              | 2037   | 2.576 | 0.0296   |
|  |          |          |                                 |        |           |          |              | 2041   | 2.652 | 0.0317   |
|  |          |          |                                 |        |           |          |              | 2049   | 3.284 | 0.0365   |
|  |          |          |                                 |        |           |          |              | 2052   | 3.214 | 0.0385   |
|  |          |          |                                 |        |           |          |              | 2058   | 2.218 | 0.0418   |
|  |          |          |                                 |        |           |          |              | 2105   | 3.113 | 0.0455   |
|  |          |          |                                 |        |           |          |              | 2116   | 2.991 | 0.0523   |
|  |          |          |                                 |        |           |          |              | 2129   | 2.828 | 0.0599   |
|  |          |          |                                 |        |           |          |              | 2205   | 2.325 | 0.0786   |
|  |          |          |                                 |        |           |          |              | 2310   | 1.197 | 0.1017   |
|  |          |          |                                 |        |           |          |              | 2355   | 0.675 | 0.1102   |
|  |          |          |                                 |        |           |          |              | 2400   | 0.646 | 0.1108   |
|  |          |          |                                 |        |           |          | 4- 6         | 116    | 0.199 | 0.1173   |
|  |          |          |                                 |        |           |          |              | 230    | 0.027 | 0.1190   |
|  |          |          |                                 |        |           |          |              | 300    | 0.009 | 0.1191   |
|  |          |          |                                 |        |           |          |              | 317    | 0.006 | 0.1191   |
|  |          |          |                                 |        |           |          |              | 400    | 0.0   | 0.1192   |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



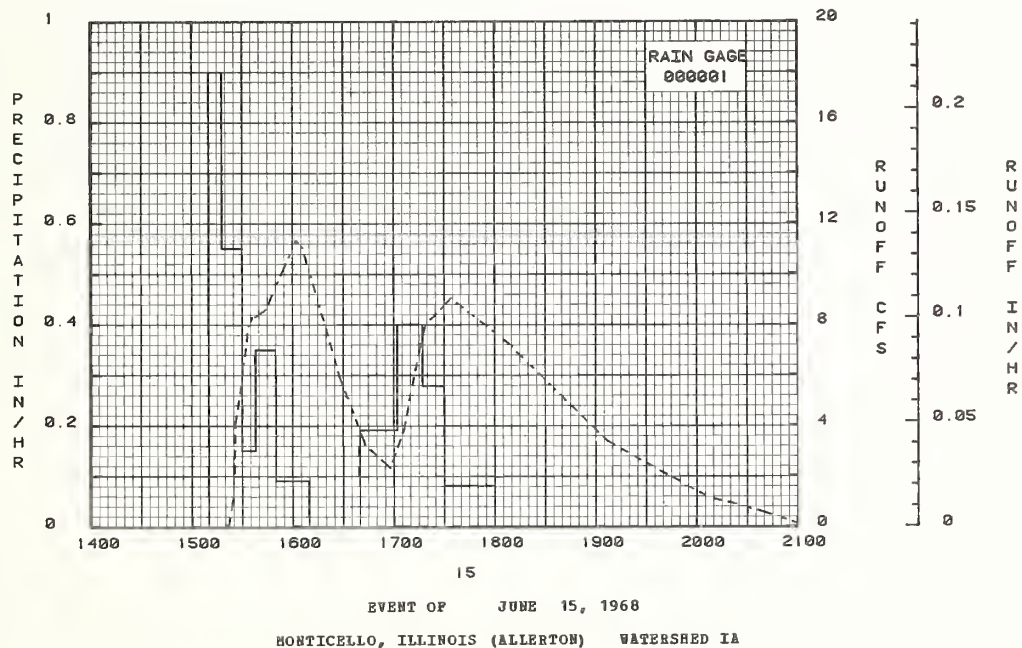
| 1967 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSRED IA |        |        |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           |          | RUNOFF       |        |        |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF DECEMBER 21, 1967  |          |          |                                 |        |           |          |              |        |        |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |              |        |        |          |
| 12-21   | 0.0      | 0.0      | 12-21                           | 140    | 0.0       | 0.0      | 12-21        | 259    | 0.0    | 0.0      |
|   |          |          |                                 | 237    | 0.0632    | 0.06     |              | 306    | 0.001  | 0.0      |
|   |          |          |                                 | 240    | 1.0001    | 0.11     |              | 312    | 0.002  | 0.0      |
|   |          |          |                                 | 250    | 0.1800    | 0.14     |              | 319    | 0.017  | 0.0001   |
|   |          |          |                                 | 253    | 1.7999    | 0.23     |              | 325    | 0.084  | 0.0001   |
| WATERSRED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |          |          |                                 | 256    | 0.8002    | 0.27     |              | 331    | 0.094  | 0.0002   |
|   |          |          |                                 | 303    | 0.3428    | 0.31     |              | 335    | 0.078  | 0.0003   |
|   |          |          |                                 | 307    | 1.3499    | 0.40     |              | 341    | 0.154  | 0.0004   |
|   |          |          |                                 | 312    | 0.1201    | 0.41     |              | 346    | 0.437  | 0.0007   |
|   |          |          |                                 | 315    | 1.3998    | 0.48     |              | 352    | 2.466  | 0.0025   |
|   |          |          |                                 | 321    | 0.3000    | 0.51     |              | 355    | 4.473  | 0.0046   |
|   |          |          |                                 | 324    | 1.8002    | 0.60     |              | 402    | 5.508  | 0.0116   |
|   |          |          |                                 | 338    | 0.0857    | 0.62     |              | 407    | 6.275  | 0.0176   |
|   |          |          |                                 | 345    | 0.5143    | 0.68     |              | 411    | 8.983  | 0.0237   |
|   |          |          |                                 | 348    | 1.8002    | 0.77     |              | 417    | 9.137  | 0.0347   |
|   |          |          |                                 | 356    | 0.5249    | 0.84     |              | 422    | 9.470  | 0.0440   |
|   |          |          |                                 | 415    | 0.1895    | 0.90     |              | 426    | 11.127 | 0.0524   |
|   |          |          |                                 | 433    | 0.1667    | 0.95     |              | 429    | 15.630 | 0.0604   |
|   |          |          |                                 | 505    | 0.0       | 0.95     |              | 432    | 16.758 | 0.0702   |
|   |          |          |                                 | 530    | 0.1200    | 1.00     |              | 439    | 16.001 | 0.0933   |
|   |          |          |                                 | 557    | 0.0889    | 1.04     |              | 459    | 12.656 | 0.1511   |
|   |          |          |                                 | 630    | 0.0545    | 1.07     |              | 527    | 7.192  | 0.2071   |
|   |          |          |                                 | 700    | 0.0400    | 1.09     |              | 548    | 5.051  | 0.2330   |
|   |          |          |                                 |        |           |          |              | 618    | 3.354  | 0.2584   |
|   |          |          |                                 |        |           |          |              | 643    | 2.180  | 0.2724   |
|   |          |          |                                 |        |           |          |              | 722    | 1.349  | 0.2863   |
|   |          |          |                                 |        |           |          |              | 753    | 0.911  | 0.2933   |
|   |          |          |                                 |        |           |          |              | 833    | 0.570  | 0.2993   |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



| 1968  |           |          | SELECTED RUNOFF EVENT |           |           |          | MONTICELLO, ILLINOIS (ALLERTON) |        |        |          | WATERSHED 1A |  |
|---|-----------|----------|-----------------------|-----------|-----------|----------|---------------------------------|--------|--------|----------|--------------|--|
| ANTECEDENT CONDITIONS   |           |          | RAINFALL              |           |           |          | RUNOFF                          |        |        |          |              |  |
| Date  | Rainfall  | Runoff   | Date                  | Time      | Intensity | Acc.     | Date                            | Time   | Rate   | Acc.     |              |  |
| Mo-Day  | (inches)  | (inches) | Mo-Day                | of Day    | (in/hr)   | (inches) | Mo-Day                          | of Day | (cfs)  | (inches) |              |  |
| EVENT OF JUNE 15, 1968  |           |          |                       |           |           |          |                                 |        |        |          |              |  |
| 6-15  | RG 000001 |          | 6-15                  | RG 000001 |           |          | 6-15                            |        |        |          |              |  |
|   | 1.09      | 0.192    |                       | 1510      | 0.0       | 0.0      |                                 | 1511   | 0.0    | 0.0      |              |  |
|   |           |          |                       | 1518      | 0.9001    | 0.12     |                                 | 1522   | 0.089  | 0.0001   |              |  |
|   |           |          |                       | 1530      | 0.5500    | 0.23     |                                 | 1525   | 1.237  | 0.0005   |              |  |
|   |           |          |                       | 1538      | 0.1499    | 0.25     |                                 | 1526   | 4.106  | 0.0011   |              |  |
|   |           |          |                       | 1550      | 0.3500    | 0.32     |                                 | 1529   | 5.380  | 0.0039   |              |  |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |           |          |                       | 1610      | 0.0900    | 0.35     |                                 | 1531   | 6.475  | 0.0063   |              |  |
|   |           |          |                       | 1640      | 0.0       | 0.35     |                                 | 1534   | 7.999  | 0.0107   |              |  |
|   |           |          |                       | 1702      | 0.1909    | 0.42     |                                 | 1536   | 8.312  | 0.0140   |              |  |
|   |           |          |                       | 1717      | 0.4000    | 0.52     |                                 | 1538   | 8.325  | 0.0173   |              |  |
|   |           |          |                       | 1730      | 0.2769    | 0.58     |                                 | 1544   | 8.597  | 0.0276   |              |  |
|   |           |          |                       | 1800      | 0.0800    | 0.62     |                                 | 1556   | 10.421 | 0.0506   |              |  |
|   |           |          |                       |           |           |          |                                 | 1602   | 11.316 | 0.0637   |              |  |
|   |           |          |                       |           |           |          |                                 | 1606   | 11.019 | 0.0727   |              |  |
|   |           |          |                       |           |           |          |                                 | 1628   | 5.914  | 0.1103   |              |  |
|   |           |          |                       |           |           |          |                                 | 1643   | 3.230  | 0.1241   |              |  |
|   |           |          |                       |           |           |          | 1658                            | 2.313  | 0.1325 |          |              |  |
|   |           |          |                       |           |           |          | 1706                            | 3.841  | 0.1374 |          |              |  |
|   |           |          |                       |           |           |          | 1716                            | 7.241  | 0.1486 |          |              |  |
|   |           |          |                       |           |           |          | 1719                            | 7.984  | 0.1532 |          |              |  |
|   |           |          |                       |           |           |          | 1734                            | 9.044  | 0.1790 |          |              |  |
|   |           |          |                       |           |           |          | 1807                            | 7.305  | 0.2333 |          |              |  |
|   |           |          |                       |           |           |          | 1907                            | 3.359  | 0.2978 |          |              |  |
|   |           |          |                       |           |           |          | 2006                            | 1.172  | 0.3248 |          |              |  |
|   |           |          |                       |           |           |          | 2040                            | 0.547  | 0.3306 |          |              |  |
|   |           |          |                       |           |           |          | 2131                            | 0.089  | 0.3339 |          |              |  |
|   |           |          |                       |           |           |          | 2139                            | 0.090  | 0.3341 |          |              |  |
|   |           |          |                       |           |           |          | 2157                            | 0.017  | 0.3343 |          |              |  |

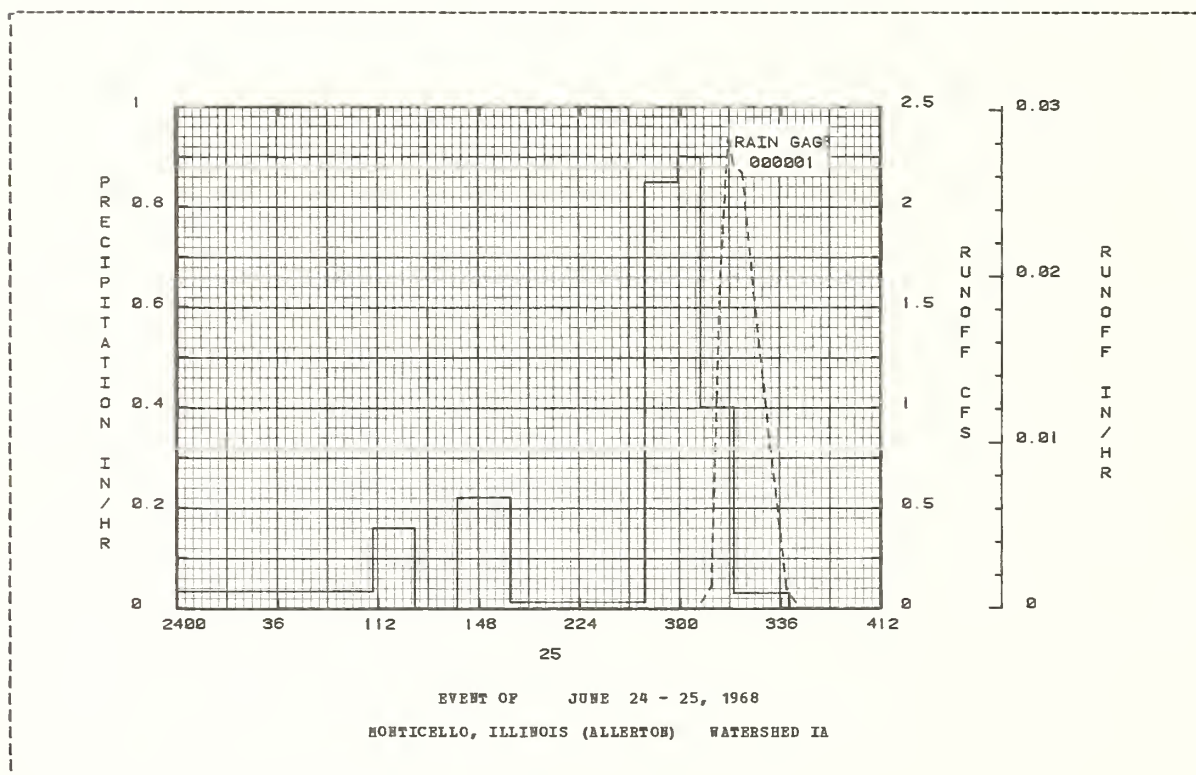
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.





| 1968      SELECTED RUNOFF EVENT   |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED 1A |        |       |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|-------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           |          | RUNOFF       |        |       |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate  | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs) | (inches) |
| EVENT OF      JUNE    24 - 25, 1968   |          |          |                                 |        |           |          |              |        |       |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |              |        |       |          |
| 6-24  | 0.83     |          | 6-24                            | 2400   | 0.0       | 0.0      | 6-25         | 202    | 0.0   | 0.0      |
| 6-25  |          | 0.000    | 6-25                            | 110    | 0.0343    | 0.04     |              | 252    | 0.001 | 0.0      |
|   |          |          |                                 | 125    | 0.1600    | 0.08     |              | 306    | 0.003 | 0.0      |
|   |          |          |                                 | 140    | 0.0       | 0.08     |              | 311    | 0.106 | 0.0      |
|   |          |          |                                 | 159    | 0.2211    | 0.15     |              | 313    | 1.081 | 0.0003   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.001-1. |          |          |                                 | 247    | 0.0125    | 0.16     |              | 314    | 1.609 | 0.0005   |
|   |          |          |                                 | 259    | 0.8500    | 0.33     |              | 317    | 2.373 | 0.0017   |
|   |          |          |                                 | 307    | 0.9001    | 0.45     |              | 319    | 2.213 | 0.0027   |
|   |          |          |                                 | 319    | 0.3999    | 0.53     |              | 322    | 2.170 | 0.0040   |
|   |          |          |                                 | 339    | 0.0300    | 0.54     |              | 327    | 1.454 | 0.0058   |
|   |          |          |                                 |        |           |          |              | 338    | 0.088 | 0.0075   |
|   |          |          |                                 |        |           |          |              | 343    | 0.0   | 0.0076   |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 01012094.

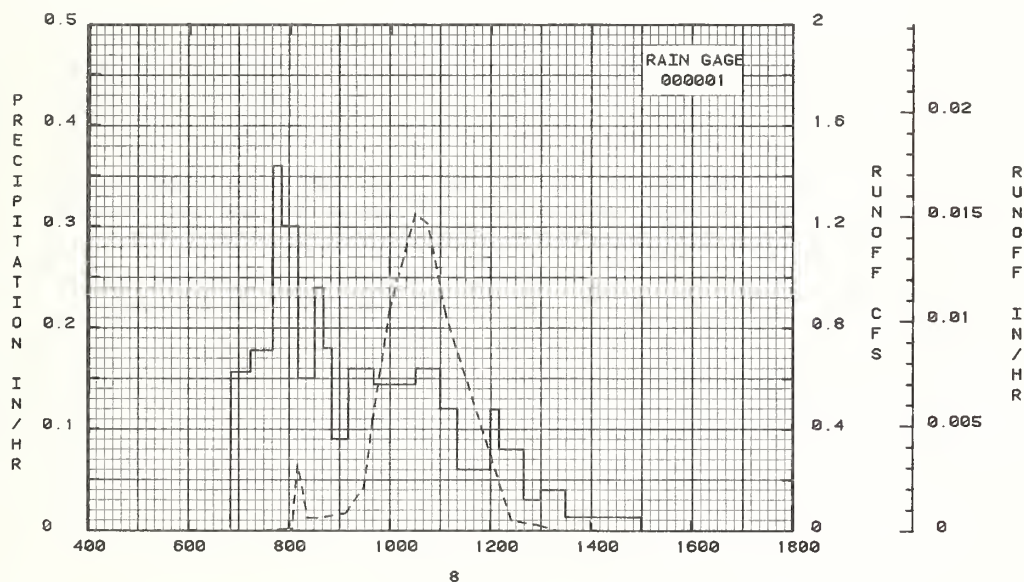




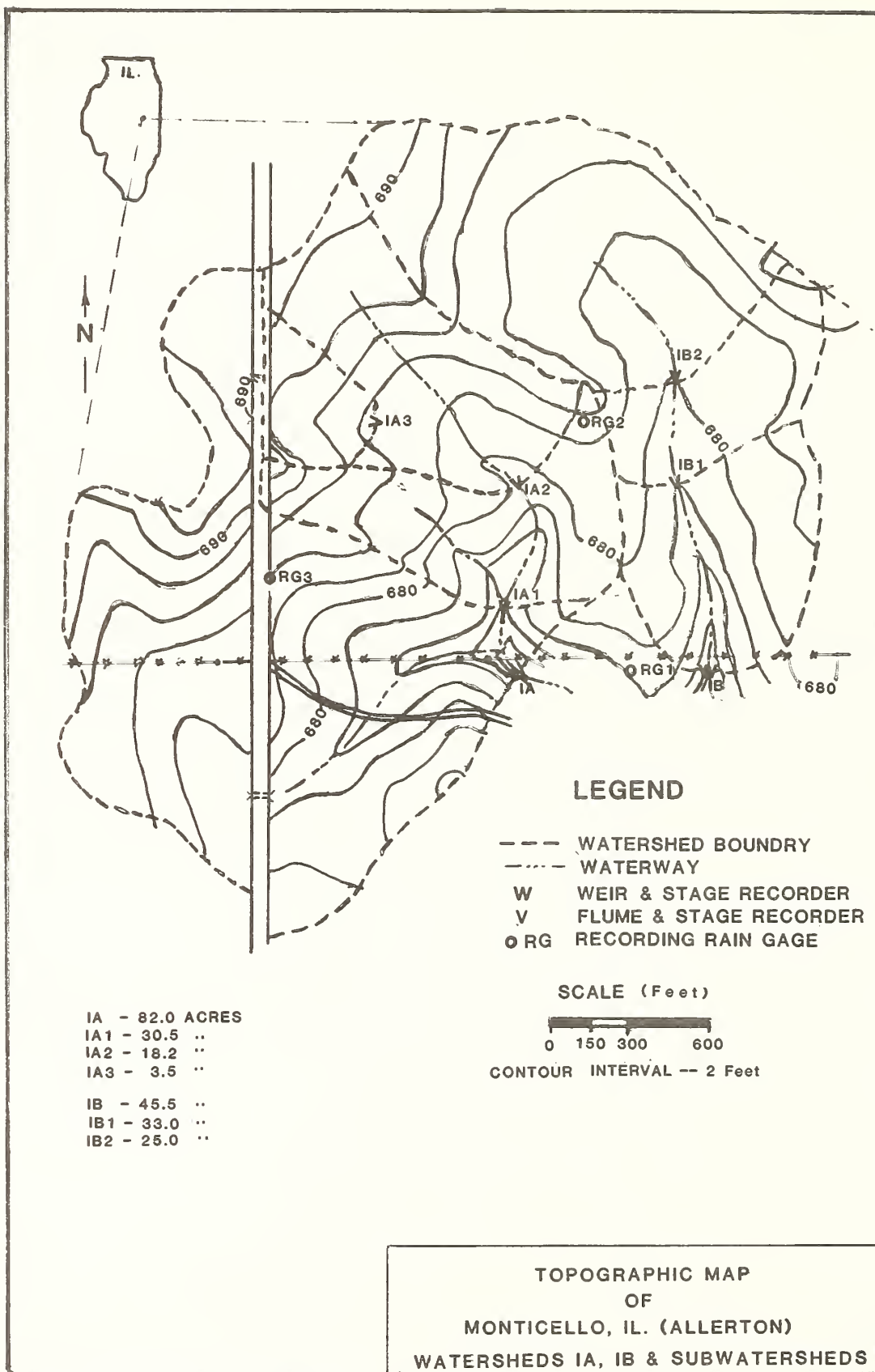
| 1969 SELECTED RUNOFF EVENT |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           | WATERSHED 1A |        |        |
|----------------------------|----------|----------|---------------------------------|--------|-----------|--------------|--------|--------|
| ANTECEDENT CONDITIONS      |          |          | RAINFALL                        |        |           | RUNOFF       |        |        |
| Date                       | Rainfall | Runoff   | Date                            | Time   | Intensity | Date         | Time   | Rate   |
| Mo-Day                     | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | Mo-Day       | of Day | (cfs)  |
| EVENT OF FEBRUARY 8, 1969  |          |          |                                 |        |           |              |        |        |
| RG 000001                  |          |          | RG 000001                       |        |           |              |        |        |
| 2- 8                       | 0.0      | 0.0      | 2- 8                            | 650    | 0.0       | 2- 8         | 729    | 0.0    |
|                            |          |          |                                 | 713    | 0.1565    |              | 804    | 0.012  |
|                            |          |          |                                 | 740    | 0.1778    |              | 805    | 0.080  |
|                            |          |          |                                 | 750    | 0.3600    |              | 810    | 0.256  |
|                            |          |          |                                 | 810    | 0.3000    |              | 822    | 0.055  |
|                            |          |          |                                 | 830    | 0.1500    |              | 834    | 0.045  |
|                            |          |          |                                 | 840    | 0.2400    |              | 907    | 0.069  |
|                            |          |          |                                 | 850    | 0.1800    |              | 929    | 0.174  |
|                            |          |          |                                 | 910    | 0.0900    |              | 940    | 0.465  |
|                            |          |          |                                 | 940    | 0.1600    |              | 959    | 0.873  |
|                            |          |          |                                 | 1030   | 0.1440    |              | 1029   | 1.249  |
|                            |          |          |                                 | 1100   | 0.1600    |              | 1044   | 1.210  |
|                            |          |          |                                 | 1120   | 0.1200    |              | 1107   | 0.838  |
|                            |          |          |                                 | 1200   | 0.0600    |              | 1225   | 0.041  |
|                            |          |          |                                 | 1210   | 0.1200    |              | 1259   | 0.017  |
|                            |          |          |                                 | 1240   | 0.0800    |              | 1319   | 0.0    |
|                            |          |          |                                 | 1300   | 0.0300    |              |        | 0.0270 |
|                            |          |          |                                 | 1330   | 0.0400    |              |        |        |
|                            |          |          |                                 | 1500   | 0.0133    |              |        |        |

WATERSHED CONDITIONS:  
For cropping information,  
see table, page 61.001-1.

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



EVENT OF FEBRUARY 8, 1969  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1A



## MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B

LOCATION: Piatt Co., IL; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.: Long. 88 deg. 38 min. 45 sec. W.

AREA: 45.50 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | MONTICELLO, ILLINOIS (ALLERTON) |         |       |                                   |       | WATERSHED 1B |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|---------------------------------|---------|-------|-----------------------------------|-------|--------------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                             | Jul     | Aug   | Sep                               | Oct   | Nov          | Dec   | Annual |       |        |       |
| 1960  | P | 1.28              | 1.45  | 0.69   | 2.86  | 3.65    | 5.74                            | 2.00    | 1.14  | 2.63                              | 1.93  | 2.51         | 0.91  | 26.79  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.000 | 0.005   | 0.501                           | 0.000   | 0.0   | 0.0                               | 0.0   | 0.000        | 0.0   | 0.507  |       |        |       |
| 1961  | P | 0.0               | 1.59  | 2.99   | 4.53  | 5.26    | 4.86                            | 3.10    | 2.12  | 3.84                              | 3.59  | 3.20         | 2.26  | 37.34  |       |        |       |
|   | Q | 0.0               | 0.015 | 0.0    | 1.052 | 2.118   | 0.044                           | 0.0     | 0.005 | 0.0                               | 0.001 | 0.004        | 0.002 | 3.241  |       |        |       |
| 1962  | P | 3.27              | 1.03  | 2.22   | 1.84  | 4.40    | 1.72                            | 5.24    | 2.64  | 1.88                              | 1.46  | 1.22         | 0.0   | 26.92  |       |        |       |
|   | Q | 0.0               | 0.623 | 1.102  | 0.0   | 0.194   | 0.021                           | 0.233   | 0.024 | 0.0                               | 0.0   | 0.0          | 0.0   | 2.198  |       |        |       |
| 1963  | P | 0.95              | 0.36  | 4.67   | 3.39  | 0.69    | 0.83                            | 3.33    | 5.35  | 0.22                              | 1.86  | 1.61         | 0.40  | 23.66  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.027  | 0.050 | 0.0     | 0.0                             | 0.001   | 0.0   | 0.0                               | 0.0   | 0.0          | 0.0   | 0.078  |       |        |       |
| 1964  | P | 1.46              | 0.86  | 3.83   | 8.33  | 0.46    | 4.02                            | 3.62    | 2.52  | 2.20                              | 0.0   | 3.47         | 1.45  | 32.22  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.037  | 2.694 | 0.0     | 0.128                           | 0.003   | 0.0   | 0.0                               | 0.0   | 0.0          | 0.0   | 2.861  |       |        |       |
| 1965  | P | 3.15              | 1.07  | 2.09   | 5.27  | 1.69    | 3.91                            | 3.13    | 5.90  | 7.04                              | 1.21  | 1.00         | 2.66  | 38.12  |       |        |       |
|   | Q | 0.0               | 0.004 | 0.0    | 0.314 | 0.0     | 0.001                           | 0.0     | 0.0   | 0.003                             | 0.0   | 0.0          | 0.0   | 0.321  |       |        |       |
| 1966  | P | 0.22              | 2.06  | 1.09   | 4.59  | 2.20    | 1.01                            | 2.34    | 2.58  | 5.95                              | 1.64  | 3.69         | 3.73  | 31.10  |       |        |       |
|   | Q | 0.0               | 0.002 | 0.000  | 0.005 | 0.0     | 0.0                             | 0.0     | 0.0   | 0.0                               | 0.0   | 0.001        | 0.656 | 0.665  |       |        |       |
| 1967  | P | 2.52              | 1.06  | 2.49   | 1.74  | 5.40    | 2.64                            | 2.73    | 2.76  | 2.75                              | 4.11  | 2.11         | 6.46  | 36.77  |       |        |       |
|   | Q | 0.321             | 0.018 | 0.650  | 0.000 | 0.364   | 0.005                           | 0.0     | 0.0   | 0.0                               | 0.0   | 0.001        | 1.501 | 2.860  |       |        |       |
| 1968  | P | 2.11              | 1.46  | 1.35   | 3.77  | 6.76    | 6.10                            | 2.18    | 1.37  | 2.34                              | 0.26  | 4.29         | 1.67  | 33.66  |       |        |       |
|   | Q | 0.392             | 0.564 | 0.0    | 0.006 | 0.547   | 0.714                           | 0.0     | 0.0   | 0.0                               | 0.0   | 0.0          | 0.0   | 2.223  |       |        |       |
| 1969  | P | 3.00              | 1.02  | 0.40   | 3.29  | 1.45    | 1.09                            | 3.07    | 2.02  | 6.92                              | 4.93  | 2.73         | 0.55  | 30.47  |       |        |       |
|   | Q | 0.632             | 0.152 | 0.000  | 0.083 | 0.0     | 0.0                             | 0.0     | 0.0   | 0.000                             | 0.0   | 0.015        | 0.000 | 0.883  |       |        |       |
| STA AV  | P | 1.91              | 1.67  | 2.23   | 3.85  | 3.38    | 3.71                            | 3.41    | 2.69  | 2.83                              | 2.73  | 2.25         | 1.92  | 32.56  |       |        |       |
|   | Q | 0.140             | 0.084 | 0.150  | 0.361 | 0.174   | 0.141                           | 0.095   | 0.005 | 0.002                             | 0.122 | 0.009        | 0.171 | 1.453  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                 |         |       |                                   |       |              |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                 | 6 Hours |       | Volume for Selected Time Interval |       | 1 Day        |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                            | Date    | Vol.  | Date                              | Vol.  | Date         | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1960  |   | 6-23              | 0.113 | 6-23   | 0.063 | 6-23    | 0.124                           | 6-23    | 0.242 | 6-23                              | 0.329 | 6-22         | 0.416 | 6-21   | 0.417 | 6-15   | 0.501 |
| 1961  |   | 5- 8              | 0.379 | 5- 8   | 0.350 | 5- 7    | 0.642                           | 5- 7    | 1.255 | 5- 7                              | 1.672 | 5- 7         | 1.878 | 5- 7   | 2.094 | 5- 1   | 2.118 |
| 1962  |   | 7-15              | 0.335 | 7-15   | 0.115 | 3-20    | 0.168                           | 3-20    | 0.456 | 3-20                              | 0.628 | 3-20         | 0.725 | 3-19   | 0.726 | 3-13   | 0.726 |
| 1963  |   | 4-22              | 0.041 | 4-29   | 0.018 | 4-29    | 0.024                           | 4-29    | 0.029 | 4-29                              | 0.029 | 4-28         | 0.029 | 4-27   | 0.029 | 4-21   | 0.036 |
| 1964  |   | 4-20              | 0.596 | 4-20   | 0.486 | 4-20    | 0.809                           | 4-20    | 1.373 | 4-19                              | 1.690 | 4-19         | 2.165 | 4-19   | 2.675 | 4-13   | 2.694 |
| 1965  |   | 4- 5              | 0.049 | 4- 5   | 0.043 | 4- 5    | 0.071                           | 4- 5    | 0.116 | 4- 5                              | 0.144 | 4- 5         | 0.149 | 4- 5   | 0.150 | 4- 5   | 0.260 |
| 1966  |   | 12- 7             | 0.093 | 12- 7  | 0.084 | 12- 7   | 0.151                           | 12- 7   | 0.327 | 12- 7                             | 0.397 | 12- 6        | 0.423 | 12- 6  | 0.650 | 11-30  | 0.656 |
| 1967  |   | 12-21             | 0.291 | 12-21  | 0.239 | 12-21   | 0.378                           | 12-21   | 0.536 | 12-21                             | 0.942 | 12-20        | 0.942 | 12-19  | 0.942 | 12-13  | 0.942 |
| 1968  |   | 5-25              | 0.188 | 6-15   | 0.134 | 6-15    | 0.219                           | 6-15    | 0.368 | 1-31                              | 0.644 | 1-31         | 0.870 | 1-30   | 0.886 | 1-24   | 0.955 |
| 1969  |   | 1-29              | 0.038 | 1-29   | 0.038 | 1-29    | 0.076                           | 1-29    | 0.184 | 1-29                              | 0.264 | 1-28         | 0.306 | 1-28   | 0.412 | 1-22   | 0.413 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                 |         |       |                                   |       |              |       |        |       |        |       |
|   |   | 4-20              | 0.596 | 4-20   | 0.486 | 4-20    | 0.809                           | 10- 6   | 1.556 | 4-19                              | 1.690 | 4-19         | 2.165 | 4-19   | 2.675 | 4-13   | 2.694 |
|   |   | 1964              |       | 1964   |       | 1964    |                                 | 1955    |       | 1964                              |       | 1964         |       | 1964   |       | 1964   |       |

NOTES: For general description of Watershed, see Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States, USDA, AHS, 1957 (Reference No. 1) page 61.2-1. Watershed conditions: The entire area is used for cropping activities except for 1% of area in grass. For percentages of the watershed in various crops, by years, see table, this page. Data for 1970 through 1975 will be included in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975. Precipitation and runoff records began August 1949. STA AV precipitation and runoff amounts are for 21 yr (1949-69) period, part-year records included. Precipitation values from the R-1 gage, located about 300 ft west of streamgaging station 1B. For daily precipitation values (1960-69) see tables for the R-1 gage starting on page 61.001-2. For contour-drainage map of the watershed, see page 61.001-23. For long-time precipitation records see National Weather Service records at Decatur, Illinois.

## CROPS, % BY YEARS WITH PLANTING (P) &amp; HARVEST (H) DATES, WHEN KNOWN

| Year | ..... | Corn               | ..... | Wheat     | ..... | Soybeans | .....                           | Oats | .....                  | Hay & Pasture |
|------|-------|--------------------|-------|-----------|-------|----------|---------------------------------|------|------------------------|---------------|
| 1960 | 74.8  |                    |       |           |       | 17.4     |                                 |      |                        | 6.8           |
| 1961 |       |                    |       |           |       | 74.8     | 06-14 (P)                       | 17.4 | 03-28 (P)<br>07-26 (H) | 6.8           |
| 1962 | 24.2  | 05-17 (P)          |       |           |       | 30.4     | 06-01 (P)                       |      |                        | 44.4          |
|      |       | 10-27 TO 11-26 (H) |       |           |       |          |                                 |      |                        |               |
| 1963 | 44.4  | 05-08 TO 05-14 (P) |       |           |       | 24.2     | 10-01 TO 10-07 (H)              |      |                        | 30.4          |
|      |       | 11-14 TO 11-15 (H) |       |           |       |          |                                 |      |                        |               |
| 1964 | 51.2  | 05-08 TO 05-15 (P) |       |           |       | 17.4     | 10-17 TO 10-30 (H)              |      |                        | 30.4          |
|      |       | 10-31 TO 11-05 (H) |       |           |       |          |                                 |      |                        |               |
| 1965 | 44.4  | 05-10 TO 05-13 (P) |       |           |       | 37.2     | 10-31 TO 11-04 (H)              | 17.4 |                        |               |
|      |       | 10-27 TO 11-19 (H) |       |           |       |          |                                 |      |                        |               |
| 1966 | 47.8  | 10-29 TO 11-30 (H) |       |           |       | 51.2     | 10-01 TO 10-29 (H)              |      |                        |               |
| 1967 | 6.8   |                    |       |           |       | 92.2     |                                 |      |                        |               |
| 1968 | 70.5  | 04-29 TO 05-10 (P) | 11.1  | 07-27 (H) |       | 17.4     | 06-05 TO 06-12 (P)<br>10-18 (H) |      |                        |               |
| 1969 | 17.4  | 04-30 TO 05-03 (P) |       |           |       | 81.6     | 05-19 TO 06-19 (P)<br>10-26 (H) |      |                        |               |
|      |       | 12-02 (H)          |       |           |       |          |                                 |      |                        |               |

Cooperative Research Project of the Agricultural Engineering Department, Univ. of Illinois and USDA

| 1960 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B |       |       |       |       |        |        |       |       |       |       |       |       |
|--|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| Day  | Jau   | Feb   | Mar   | Apr   | May    | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.001 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.014  | 0.0   | 0.0   | 0.0   | 0.0   | 0.001 | 0.0   |
| 17   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.145  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0    | 0.003  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.163  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.634  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.0   | 0.0   | 0.002  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0   | 0.0   | 0.0   | 0.0   | 0.007  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0003 | 0.0319 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.0   | 0.0   | 0.0   | 0.000 | 0.005  | 0.501  | 0.000 | 0.0   | 0.0   | 0.0   | 0.000 | 0.0   |
| STA AV   | 0.132 | 0.027 | 0.108 | 0.274 | 0.023  | 0.173  | 0.151 | 0.006 | 0.003 | 0.214 | 0.015 | 0.119 |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 12 yr period (1949-60), part year records included.

| 1961 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B |       |        |       |        |        |        |       |        |       |       |        |        |
|--|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|--------|--------|
| Day  | Jau   | Feb    | Mar   | Apr    | May    | Jun    | Jul   | Aug    | Sep   | Oct   | Nov    | Dec    |
| 1  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0 T  | 0.0    |
| 3  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.003  | 0.0    |
| 4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.010  | 0.0   | 0.0   | 0.0    | 0.0    |
| 5  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.041  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 7  | 0.0   | 0.0    | 0.0   | 0.0    | 0.350  | 0.001  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 8  | 0.0   | 0.0    | 0.0   | 0.0    | 3.280  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 9  | 0.0   | 0.0    | 0.0   | 0.0    | 0.377  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 10   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 11   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.001  |
| 12   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.002  |
| 13   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.001  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 14   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 15   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 16   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 17   | 0.0   | 0.029  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 18   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 19   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 20   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 21   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.081  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 22   | 0.0   | 0.0    | 0.0   | 0.032  | 0.0    | 0.001  | 0.0   | 0.0    | 0.0   | 0.0   | 0.005  | 0.002  |
| 23   | 0.0   | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 24   | 0.0   | 0.0    | 0.0   | 0.262  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 25   | 0.0   | 0.0    | 0.0   | 1.717  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 26   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 27   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 28   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.002 | 0.0    | 0.0    |
| 29   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 30   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| 31   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |
| MEAN   | 0.0   | 0.0010 | 0.0   | 0.0671 | 0.1306 | 0.0028 | 0.0   | 0.0003 | 0.0   | 0.0   | 0.0003 | 0.0001 |
| INCHES   | 0.0   | 0.015  | 0.0   | 1.052  | 2.118  | 0.044  | 0.0   | 0.005  | 0.0   | 0.001 | 0.004  | 0.002  |
| STA AV   | 0.121 | 0.026  | 0.099 | 0.339  | 0.198  | 0.162  | 0.138 | 0.006  | 0.003 | 0.197 | 0.014  | 0.110  |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 13 yr period (1949-61), part year records included.



| 1962   |       | MEAN DAILY DISCHARGE (cfs) |        |       |        |        | MONTICELLO, ILLINOIS (ALLERTON) |        |       |       | WATERSHED IB |       |  |
|--------|-------|----------------------------|--------|-------|--------|--------|---------------------------------|--------|-------|-------|--------------|-------|--|
| Day    | Jan   | Feb                        | Mar    | Apr   | May    | Jun    | Jul                             | Aug    | Sep   | Oct   | Nov          | Dec   |  |
| 1      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 2      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 3      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 4      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 5      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.040  | 0.0                             | 0.046  | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 6      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.001  | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 7      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 8      | 0.0   | 0.0                        | 0.0    | 0.0   | 0.004  | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 9      | 0.0   | 0.0                        | 0.082  | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 10     | 0.0   | 0.0                        | 0.167  | 0.0   | 0.333  | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 11     | 0.0   | 0.0                        | 0.456  | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 12     | 0.0   | 0.0                        | 0.014  | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 13     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.007                           | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 14     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 15     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.353                           | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 16     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 17     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.032  | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 18     | 0.0   | 0.374                      | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 19     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 20     | 0.0   | 0.0                        | 0.623  | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 21     | 0.0   | 0.0                        | 0.765  | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 22     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.082                           | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 23     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.004                           | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 24     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 25     | 0.0   | 0.158                      | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 26     | 0.0   | 0.659                      | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 27     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.002  | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 28     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 29     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 30     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 31     | 0.0   | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0    | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   |  |
| MEAN   | 0.0   | 0.0425                     | 0.0680 | 0.0   | 0.0120 | 0.0013 | 0.0144                          | 0.0015 | 0.0   | 0.0   | 0.0          | 0.0   |  |
| INCHES | 0.0   | 0.623                      | 1.102  | 0.0   | 0.194  | 0.021  | 0.233                           | 0.024  | 0.0   | 0.0   | 0.0          | 0.0   |  |
| STA AV | 0.112 | 0.072                      | 0.176  | 0.312 | 0.197  | 0.151  | 0.146                           | 0.008  | 0.002 | 0.183 | 0.013        | 0.102 |  |

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 14 yr period (1949-62), part year records included.

| 1963   |       | MEAN DAILY DISCHARGE (cfs) |        |        |       |       | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       | WATERSHED IB |       |  |
|--------|-------|----------------------------|--------|--------|-------|-------|---------------------------------|-------|-------|-------|--------------|-------|--|
| Day    | Jan   | Feb                        | Mar    | Apr    | May   | Jun   | Jul                             | Aug   | Sep   | Oct   | Nov          | Dec   |  |
| 1      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 2      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 3      | 0.0   | 0.0                        | 0.0    | 0.026  | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 4      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 5      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 6      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.001                           | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 7      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 8      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 9      | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 10     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 11     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 12     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 13     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.001                           | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 14     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 15     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 16     | 0.0   | 0.0                        | 0.012  | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 17     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 18     | 0.0   | 0.0                        | 0.014  | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 19     | 0.0   | 0.0                        | 0.026  | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 20     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 21     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 22     | 0.0   | 0.0                        | 0.0    | 0.015  | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 23     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 24     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 25     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 26     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 27     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 28     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 29     | 0.0   | 0.0                        | 0.0    | 0.055  | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 30     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| 31     | 0.0   | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| MEAN   | 0.0   | 0.0                        | 0.0017 | 0.0032 | 0.0   | 0.0   | 0.0001                          | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| INCHES | 0.0   | 0.0                        | 0.027  | 0.050  | 0.0   | 0.0   | 0.001                           | 0.0   | 0.0   | 0.0   | 0.0          | 0.0   |  |
| STA AV | 0.104 | 0.067                      | 0.166  | 0.294  | 0.183 | 0.140 | 0.135                           | 0.007 | 0.002 | 0.171 | 0.012        | 0.095 |  |

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 15 yr period (1949-63), part year records included.



| 1964   | MEAN DAILY DISCHARGE (cfs) |       |        |        |       | MONTICELLO, ILLINOIS (ALLERTON) |        |       |       | WATERSHED 1B |       |       |
|--------|----------------------------|-------|--------|--------|-------|---------------------------------|--------|-------|-------|--------------|-------|-------|
| Day    | Jan                        | Feb   | Mar    | Apr    | May   | Jun                             | Jul    | Aug   | Sep   | Oct          | Nov   | Dec   |
| 1      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 2      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 3      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 4      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 5      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 6      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.004  | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 7      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 8      | 0.0                        | 0.0   | 0.027  | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 9      | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 10     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 11     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.001  | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 12     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 13     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 14     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 15     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 16     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 17     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 18     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 19     | 0.0                        | 0.0   | 0.0    | 0.949  | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 20     | 0.0                        | 0.0   | 0.0    | 4.068  | 0.0   | 0.244                           | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 21     | 0.0                        | 0.0   | 0.0    | 0.132  | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 22     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 23     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 24     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 25     | 0.0                        | 0.0   | 0.043  | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 26     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 27     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 28     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 29     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 30     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| 31     | 0.0                        | 0.0   | 0.0    | 0.0    | 0.0   | 0.0                             | 0.0    | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| MEAN   | 0.0                        | 0.0   | 0.0023 | 0.1716 | 0.0   | 0.0081                          | 0.0002 | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| INCHES | 0.0                        | 0.0   | 0.037  | 2.694  | 0.0   | 0.128                           | 0.003  | 0.0   | 0.0   | 0.0          | 0.0   | 0.0   |
| STA AV | 0.097                      | 0.063 | 0.157  | 0.454  | 0.171 | 0.140                           | 0.126  | 0.007 | 0.002 | 0.160        | 0.011 | 0.089 |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 16 yr period (1949-64), part year records included.

| 1965   | MEAN DAILY DISCHARGE (cfs) |        |       |        |       | MONTICELLO, ILLINOIS (ALLERTON) |       |       |        | WATERSHED 1B |       |       |
|--------|----------------------------|--------|-------|--------|-------|---------------------------------|-------|-------|--------|--------------|-------|-------|
| Day    | Jan                        | Feb    | Mar   | Apr    | May   | Jun                             | Jul   | Aug   | Sep    | Oct          | Nov   | Dec   |
| 1      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.002                           | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 2      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 3      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 4      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 5      | 0.0                        | 0.0    | 0.0   | 0.191  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 6      | 0.0                        | 0.0    | 0.0   | 0.095  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 7      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 8      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 9      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 10     | 0.0                        | 0.007  | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 11     | 0.0                        | 0.0    | 0.0   | 0.210  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 12     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 13     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 14     | 0.0                        | 0.0    | 0.0   | 0.031  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0 T  | 0.0          | 0.0   | 0.0   |
| 15     | 0.0                        | 0.0    | 0.0   | 0.037  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 16     | 0.0                        | 0.0    | 0.0   | 0.022  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.002  | 0.0          | 0.0   | 0.0   |
| 17     | 0.0                        | 0.0    | 0.0   | 0.0 T  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 18     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 19     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 20     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 21     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 22     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.003  | 0.0          | 0.0   | 0.0   |
| 23     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 24     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 25     | 0.0                        | 0.0    | 0.0   | 0.014  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 26     | 0.0                        | 0.0    | 0.0   | 0.001  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 27     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 28     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 29     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 30     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| 31     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0    | 0.0          | 0.0   | 0.0   |
| MEAN   | 0.0                        | 0.0002 | 0.0   | 0.0200 | 0.0   | 0.0001                          | 0.0   | 0.0   | 0.0002 | 0.0          | 0.0   | 0.0   |
| INCHES | 0.0                        | 0.004  | 0.0   | 0.314  | 0.0   | 0.001                           | 0.0   | 0.0   | 0.003  | 0.0          | 0.0   | 0.0   |
| STA AV | 0.091                      | 0.059  | 0.147 | 0.445  | 0.160 | 0.131                           | 0.119 | 0.006 | 0.002  | 0.151        | 0.011 | 0.084 |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 17 yr period (1949-65), part year records included.

| 1966   | MEAN DAILY DISCHARGE (cfs) |        |       |        |       | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       |       | WATERSHED 1B |        |  |
|--------|----------------------------|--------|-------|--------|-------|---------------------------------|-------|-------|-------|-------|--------------|--------|--|
| Day    | Jan                        | Feb    | Mar   | Apr    | May   | Jun                             | Jul   | Aug   | Sep   | Oct   | Nov          | Dec    |  |
| 1      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 2      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 3      | 0.0                        | 0.0    | 0.001 | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 4      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 5      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.005  |  |
| 6      | 0.0                        | 0.0 T  | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.006  |  |
| 7      | 0.0                        | 0.001  | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.808  |  |
| 8      | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.434  |  |
| 9      | 0.0                        | 0.001  | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 10     | 0.0                        | 0.002  | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 11     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 12     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 13     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 14     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 15     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 16     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 17     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 18     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 19     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 20     | 0.0                        | 0.0    | 0.0   | 0.002  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 21     | 0.0                        | 0.0    | 0.0   | 0.0 T  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 22     | 0.0                        | 0.0    | 0.0   | 0.008  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 23     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 24     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 25     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 26     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 27     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.001        | 0.0    |  |
| 28     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 29     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 30     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 31     | 0.0                        | 0.0    | 0.0   | 0.0    | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| MEAN   | 0.0                        | 0.0001 | 0.0   | 0.0004 | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0405 |  |
| INCHES | 0.0                        | 0.002  | 0.000 | 0.005  | 0.0   | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.001        | 0.656  |  |
| STA AV | 0.085                      | 0.056  | 0.139 | 0.419  | 0.151 | 0.123                           | 0.112 | 0.006 | 0.002 | 0.142 | 0.010        | 0.116  |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 18 yr period (1949-66), part year records included.

| 1967   | MEAN DAILY DISCHARGE (cfs) |        |        |       |        | MONTICELLO, ILLINOIS (ALLERTON) |       |       |       |       | WATERSHED 1B |        |  |
|--------|----------------------------|--------|--------|-------|--------|---------------------------------|-------|-------|-------|-------|--------------|--------|--|
| Day    | Jan                        | Feb    | Mar    | Apr   | May    | Jun                             | Jul   | Aug   | Sep   | Oct   | Nov          | Dec    |  |
| 1      | 0.0                        | 0.034  | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 2      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.013  |  |
| 3      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 4      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 5      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.071  |  |
| 6      | 0.002                      | 0.0    | 0.0    | 0.0   | 0.023  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.198  |  |
| 7      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.490  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 8      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.154  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 9      | 0.0                        | 0.0    | 0.0    | 0.0   | 0.008  | 0.010                           | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.094  |  |
| 10     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.662  |  |
| 11     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.002  |  |
| 12     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.028  |  |
| 13     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 14     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 15     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 16     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 17     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 18     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 19     | 0.0                        | 0.0    | 0.030  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 20     | 0.0                        | 0.0    | 0.747  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 21     | 0.0                        | 0.0    | 0.340  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 1.801  |  |
| 22     | 0.0                        | 0.0    | 0.120  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 23     | 0.0                        | 0.0    | 0.005  | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 24     | 0.003                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 25     | 0.001                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 26     | 0.535                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 27     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 28     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| 29     | 0.0                        | 0.0    | 0.0    | 0.0 T | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T        | 0.0    |  |
| 30     | 0.0                        | 0.0    | 0.0    | 0.0   | 0.022  | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.001        | 0.0    |  |
| 31     | 0.074                      | 0.0    | 0.0    | 0.0   | 0.0    | 0.0                             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0    |  |
| MEAN   | 0.0198                     | 0.0012 | 0.0401 | 0.0   | 0.0225 | 0.0003                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0          | 0.0926 |  |
| INCHES | 0.321                      | 0.018  | 0.650  | 0.000 | 0.364  | 0.005                           | 0.0   | 0.0   | 0.0   | 0.0   | 0.001        | 1.501  |  |
| STA AV | 0.098                      | 0.053  | 0.167  | 0.396 | 0.163  | 0.117                           | 0.105 | 0.006 | 0.002 | 0.135 | 0.010        | 0.189  |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 19 yr period (1949-67), part year records included.

| 1968 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B |        |        |       |        |        |        |       |       |       |       |       |       |
|--|--------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Day  | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0    | 1.079  | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3  | 0.0    | 0.0    | 0.0   | 0.003  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14   | 0.0    | 0.0    | 0.0   | 0.001  | 0.0    | 0.010  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.074  | 1.345  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.006  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17   | 0.0    | 0.0    | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18   | 0.0    | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19   | 0.0    | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20   | 0.0    | 0.0    | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 21   | 0.0 T  | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22   | 0.0 T  | 0.0    | 0.0   | 0.001  | 0.006  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23   | 0.001  | 0.0    | 0.0   | 0.0 T  | 0.469  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24   | 0.0 T  | 0.0    | 0.0   | 0.0 T  | 0.087  | 0.002  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25   | 0.0    | 0.0    | 0.0   | 0.001  | 0.410  | 0.003  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 26   | 0.0 T  | 0.0    | 0.0   | 0.0 T  | 0.001  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27   | 0.003  | 0.0    | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 28   | 0.002  | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 29   | 0.128  | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30   | 0.001  | 0.0    | 0.0   | 0.001  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 31   | 0.614  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| MEAN   | 0.0241 | 0.0372 | 0.0   | 0.0004 | 0.0338 | 0.0455 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| INCHES   | 0.392  | 0.564  | 0.0   | 0.006  | 0.547  | 0.714  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| STA AV   | 0.114  | 0.080  | 0.158 | 0.375  | 0.183  | 0.148  | 0.100 | 0.005 | 0.002 | 0.128 | 0.009 | 0.179 |

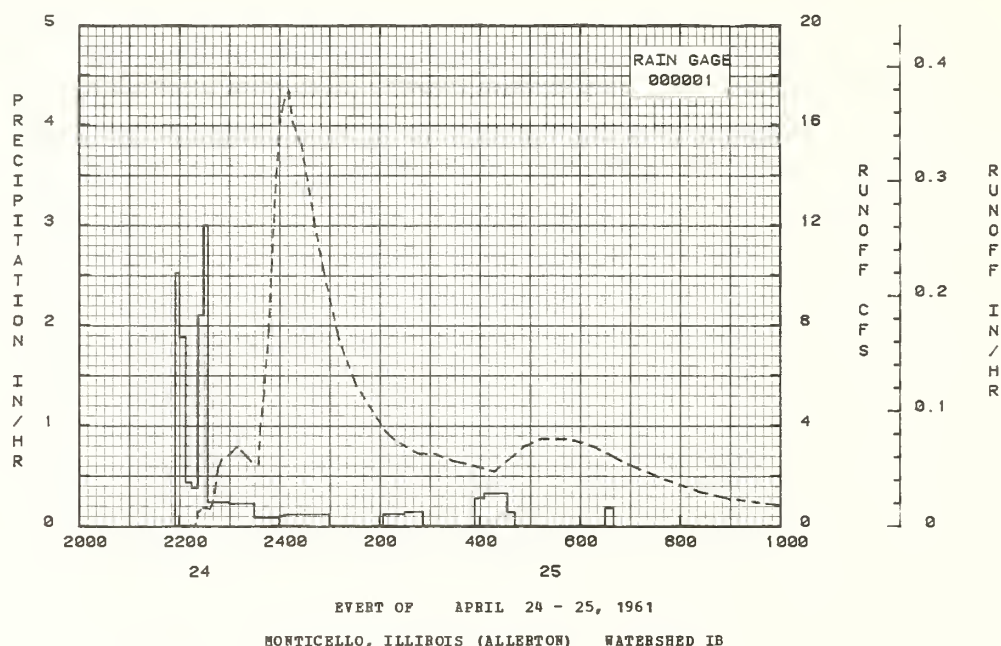
NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 20 yr period (1949-68), part year records included.

| 1969 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B |        |        |       |        |       |       |       |       |       |       |        |       |
|--|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| Day  | Jan    | Feb    | Mar   | Apr    | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov    | Dec   |
| 1  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 2  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 3  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 4  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 5  | 0.0    | 0.0    | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 6  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 7  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0 T |
| 8  | 0.0    | 0.290  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 9  | 0.0    | 0.001  | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 10   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 11   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 12   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 13   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 14   | 0.0    | 0.0    | 0.0   | 0.001  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 15   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 16   | 0.001  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 17   | 0.183  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.001  | 0.0   |
| 18   | 0.233  | 0.0    | 0.0   | 0.156  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.025  | 0.0   |
| 19   | 0.0 T  | 0.0    | 0.0   | 0.0 T  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.004  | 0.0   |
| 20   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 21   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 22   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 23   | 0.0    | 0.0    | 0.0 T | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 24   | 0.0    | 0.0    | 0.0 T | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 25   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 26   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 27   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 28   | 0.197  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 29   | 0.579  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 30   | 0.015  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| 31   | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |
| MEAN   | 0.0390 | 0.0104 | 0.0   | 0.0053 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0010 | 0.0   |
| INCHES   | 0.632  | 0.152  | 0.000 | 0.083  | 0.0   | 0.0   | 0.0   | 0.0   | 0.000 | 0.0   | 0.015  | 0.000 |
| STA AV   | 0.140  | 0.084  | 0.150 | 0.361  | 0.174 | 0.141 | 0.095 | 0.005 | 0.002 | 0.122 | 0.009  | 0.171 |

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 21 yr period (1949-69), part year records included.

| 1961 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED 1B |        |        |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           | RUNOFF   |              |        |        |          |
| Date  | Rainfall | Rnoff    | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF APRIL 24 - 25, 1961  |          |          |                                 |        |           |          |              |        |        |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |              |        |        |          |
| 4-24  | 0.22     | 1.0      | 4-24                            | 2155   | 0.0       | 0.0      | 4-24         | 2211   | 0.0    | 0.0      |
|   |          |          |                                 | 2200   | 2.5200    | 0.21     |              | 2214   | 0.039  | 0.0      |
|   |          |          |                                 | 2208   | 1.8750    | 0.46     |              | 2219   | 0.031  | 0.0001   |
|   |          |          |                                 | 2215   | 0.4286    | 0.51     |              | 2220   | 0.093  | 0.0001   |
|   |          |          |                                 | 2223   | 0.3750    | 0.56     |              | 2222   | 0.306  | 0.0003   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |          |          |                                 | 2229   | 2.1000    | 0.77     |              | 2223   | 0.570  | 0.0004   |
|   |          |          |                                 | 2234   | 3.0000    | 1.02     |              | 2224   | 0.586  | 0.0006   |
|   |          |          |                                 | 2300   | 0.2308    | 1.12     |              | 2226   | 0.650  | 0.0011   |
|   |          |          |                                 | 2330   | 0.2200    | 1.23     |              | 2229   | 0.740  | 0.0019   |
|   |          |          |                                 | 2400   | 0.0800    | 1.27     |              | 2234   | 0.687  | 0.0031   |
|   |          |          | 4-25                            | 6      | 0.1000    | 1.28     |              | 2237   | 0.666  | 0.0039   |
|   |          |          |                                 | 100    | 0.1111    | 1.38     |              | 2241   | 1.022  | 0.0051   |
|   |          |          |                                 | 204    | 0.0       | 1.38     |              | 2243   | 1.444  | 0.0060   |
|   |          |          |                                 | 230    | 0.1154    | 1.43     |              | 2247   | 2.318  | 0.0087   |
|   |          |          |                                 | 252    | 0.1364    | 1.48     |              | 2251   | 2.650  | 0.0124   |
|   |          |          |                                 | 354    | 0.0       | 1.48     |              | 2301   | 2.874  | 0.0224   |
|   |          |          |                                 | 405    | 0.2727    | 1.53     |              | 2309   | 3.154  | 0.0311   |
|   |          |          |                                 | 433    | 0.3214    | 1.68     |              | 2314   | 2.978  | 0.0367   |
|   |          |          |                                 | 442    | 0.1333    | 1.70     |              | 2326   | 2.562  | 0.0488   |
|   |          |          |                                 | 630    | 0.0       | 1.70     |              | 2335   | 2.452  | 0.0570   |
|   |          |          |                                 | 640    | 0.1800    | 1.73     |              | 2337   | 3.794  | 0.0593   |
|   |          |          |                                 |        |           |          |              | 2342   | 5.415  | 0.0676   |
|   |          |          |                                 |        |           |          |              | 2347   | 7.739  | 0.0796   |
|   |          |          |                                 |        |           |          |              | 2351   | 10.617 | 0.0929   |
|   |          |          |                                 |        |           |          |              | 2356   | 13.988 | 0.1152   |
|   |          |          |                                 |        |           |          | 4-25         | 2400   | 15.793 | 0.1369   |
|   |          |          |                                 |        |           |          |              | 1      | 16.244 | 0.1427   |
|   |          |          |                                 |        |           |          |              | 6      | 17.005 | 0.1729   |
|   |          |          |                                 |        |           |          |              | 11     | 17.353 | 0.2041   |
|   |          |          |                                 |        |           |          |              | 16     | 16.051 | 0.2344   |
|   |          |          |                                 |        |           |          |              | 26     | 15.247 | 0.2913   |
|   |          |          |                                 |        |           |          |              | 41     | 12.221 | 0.3661   |
|   |          |          |                                 |        |           |          |              | 52     | 10.227 | 0.4110   |
|   |          |          |                                 |        |           |          |              | 111    | 7.395  | 0.4718   |
|   |          |          |                                 |        |           |          |              | 132    | 5.551  | 0.5212   |
|   |          |          |                                 |        |           |          |              | 207    | 3.725  | 0.5801   |
|   |          |          |                                 |        |           |          |              | 217    | 3.434  | 0.5931   |
|   |          |          |                                 |        |           |          |              | 247    | 2.844  | 0.6274   |
|   |          |          |                                 |        |           |          |              | 307    | 2.846  | 0.6480   |
|   |          |          |                                 |        |           |          |              | 327    | 2.583  | 0.6677   |
|   |          |          |                                 |        |           |          |              | 343    | 2.464  | 0.6824   |
|   |          |          |                                 |        |           |          |              | 355    | 2.353  | 0.6929   |
|   |          |          |                                 |        |           |          |              | 417    | 2.158  | 0.7109   |
|   |          |          |                                 |        |           |          |              | 443    | 2.872  | 0.7347   |
|   |          |          |                                 |        |           |          |              | 453    | 3.166  | 0.7457   |
|   |          |          |                                 |        |           |          |              | 503    | 3.312  | 0.7574   |
|   |          |          |                                 |        |           |          |              | 513    | 3.457  | 0.7697   |
|   |          |          |                                 |        |           |          |              | 543    | 3.448  | 0.8073   |
|   |          |          |                                 |        |           |          |              | 603    | 3.295  | 0.8318   |
|   |          |          |                                 |        |           |          |              | 616    | 3.141  | 0.8470   |
|   |          |          |                                 |        |           |          |              | 634    | 2.838  | 0.8666   |
|   |          |          |                                 |        |           |          |              | 649    | 2.577  | 0.8813   |
|   |          |          |                                 |        |           |          |              | 704    | 2.348  | 0.8948   |
|   |          |          |                                 |        |           |          |              | 734    | 1.939  | 0.9181   |
|   |          |          |                                 |        |           |          |              | 824    | 1.330  | 0.9478   |
|   |          |          |                                 |        |           |          |              | 859    | 1.063  | 0.9630   |
|   |          |          |                                 |        |           |          |              | 959    | 0.815  | 0.9835   |
|   |          |          |                                 |        |           |          |              | 1029   | 0.695  | 0.9917   |
|   |          |          |                                 |        |           |          |              | 1059   | 0.585  | 0.9987   |
|   |          |          |                                 |        |           |          |              | 1135   | 0.496  | 1.0057   |
|   |          |          |                                 |        |           |          |              | 1215   | 0.413  | 1.0123   |
|   |          |          |                                 |        |           |          |              | 1255   | 0.336  | 1.0178   |
|   |          |          |                                 |        |           |          |              | 1331   | 0.270  | 1.0218   |
|   |          |          |                                 |        |           |          |              | 1446   | 0.161  | 1.0276   |
|   |          |          |                                 |        |           |          |              | 1541   | 0.118  | 1.0304   |
|   |          |          |                                 |        |           |          |              | 1631   | 0.084  | 1.0323   |
|   |          |          |                                 |        |           |          |              | 1732   | 0.056  | 1.0338   |

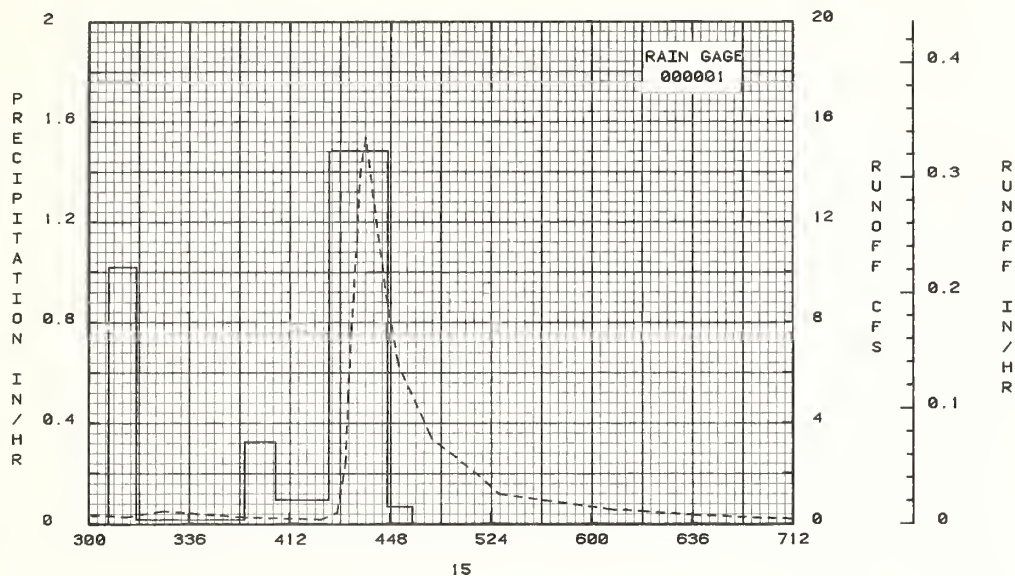
NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.021796.



| 1962 SELECTED RUROFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          | WATERSHED IB |        |        |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS:  |          |          | RAINFALL                        |        |           |          | RUROFF       |        |        |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF JULY 15, 1962  |          |          |                                 |        |           |          |              |        |        |          |
| BG 000001   |          |          | BG 000001                       |        |           |          |              |        |        |          |
| 7-15  | 0.41     | 0.036    | 7-15                            | 307    | 0.0       | 0.0      | 7-15         | 301    | 0.350  | 0.0      |
|   |          |          |                                 | 317    | 1.0200    | 0.17     |              | 313    | 0.282  | 0.0013   |
|   |          |          |                                 | 356    | 0.0154    | 0.18     |              | 326    | 0.509  | 0.0032   |
|   |          |          |                                 | 407    | 0.3273    | 0.24     |              | 354    | 0.262  | 0.0071   |
|   |          |          |                                 | 426    | 0.0947    | 0.27     |              | 423    | 0.171  | 0.0094   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |          |          |                                 | 447    | 1.4857    | 0.79     |              | 429    | 0.453  | 0.0101   |
|   |          |          |                                 | 456    | 0.0666    | 0.80     |              | 432    | 2.377  | 0.0116   |
|   |          |          |                                 |        |           |          |              | 433    | 5.307  | 0.0130   |
|   |          |          |                                 |        |           |          |              | 434    | 7.621  | 0.0154   |
|   |          |          |                                 |        |           |          |              | 436    | 11.389 | 0.0223   |
|   |          |          |                                 |        |           |          |              | 437    | 13.841 | 0.0269   |
|   |          |          |                                 |        |           |          |              | 439    | 15.361 | 0.0375   |
|   |          |          |                                 |        |           |          |              | 446    | 9.361  | 0.0689   |
|   |          |          |                                 |        |           |          |              | 451    | 6.241  | 0.0831   |
|   |          |          |                                 |        |           |          |              | 503    | 3.345  | 0.1040   |
|   |          |          |                                 |        |           |          |              | 518    | 2.065  | 0.1187   |
|   |          |          |                                 |        |           |          |              | 527    | 1.172  | 0.1240   |
|   |          |          |                                 |        |           |          |              | 606    | 0.574  | 0.1364   |
|   |          |          |                                 |        |           |          |              | 618    | 0.487  | 0.1387   |
|   |          |          |                                 |        |           |          |              | 639    | 0.328  | 0.1418   |
|   |          |          |                                 |        |           |          |              | 716    | 0.181  | 0.1452   |
|   |          |          |                                 |        |           |          |              | 813    | 0.079  | 0.1479   |
|   |          |          |                                 |        |           |          |              | 843    | 0.029  | 0.1485   |

NOTES: To convert runoff in CFS to IB/DAY, multiply by 0.021796.

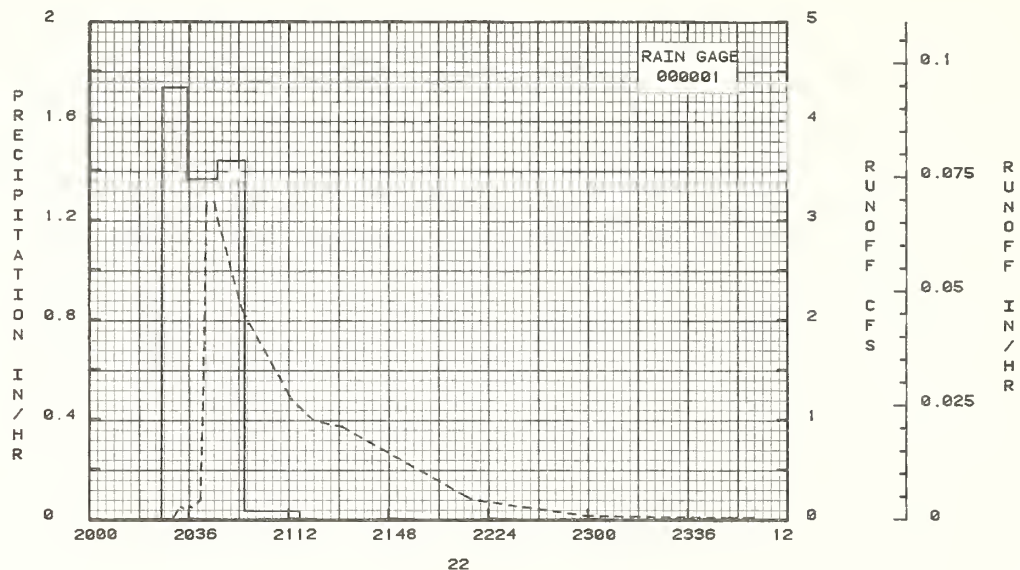




EVENT OF JULY 15, 1962  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

| 1962 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB |        |           |          |        |        |       |          |
|---|----------|----------|--|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                                     |        |           |          | RUNOFF |        |       |          |
| Date  | Rainfall | Runoff   | Date   | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                                       | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF JULY 22, 1962  |          |          |  |        |           |          |        |        |       |          |
| RG 000001   |          |          | RG 000001                                    |        |           |          |        |        |       |          |
| 7-22  | 0.0      | 0.0      | 7-22   | 2026   | 0.0       | 0.0      | 7-22   | 2030   | 0.0   | 0.0      |
|   |          |          |  | 2035   | 1.7334    | 0.26     |        | 2032   | 0.088 | 0.0      |
|   |          |          |  | 2046   | 1.3636    | 0.51     |        | 2033   | 0.122 | 0.0      |
|   |          |          |  | 2056   | 1.4399    | 0.75     |        | 2034   | 0.098 | 0.0001   |
|   |          |          |  | 2116   | 0.0300    | 0.76     |        | 2036   | 0.130 | 0.0002   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |          |          |  |        |           |          |        | 2037   | 0.114 | 0.0002   |
|   |          |          |  |        |           |          |        | 2040   | 0.193 | 0.0004   |
|   |          |          |  |        |           |          |        | 2041   | 1.171 | 0.0006   |
|   |          |          |  |        |           |          |        | 2042   | 3.181 | 0.0014   |
|   |          |          |  |        |           |          |        | 2045   | 3.174 | 0.0049   |
|   |          |          |  |        |           |          |        | 2046   | 3.012 | 0.0060   |
|   |          |          |  |        |           |          |        | 2055   | 2.087 | 0.0143   |
|   |          |          |  |        |           |          |        | 2113   | 1.191 | 0.0250   |
|   |          |          |  |        |           |          |        | 2121   | 0.980 | 0.0282   |
|   |          |          |  |        |           |          |        | 2131   | 0.922 | 0.0316   |
|   |          |          |  |        |           |          |        | 2218   | 0.195 | 0.0412   |
|   |          |          |  |        |           |          |        | 2259   | 0.026 | 0.0428   |
|   |          |          |  |        |           |          |        | 2316   | 0.016 | 0.0430   |

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.021796.

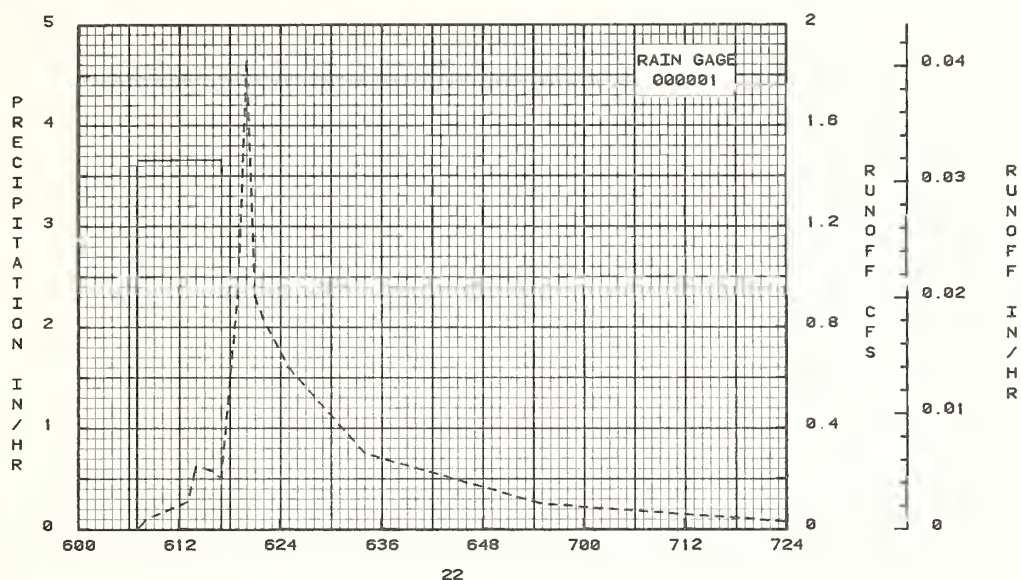


EVENT OF JULY 22, 1962  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

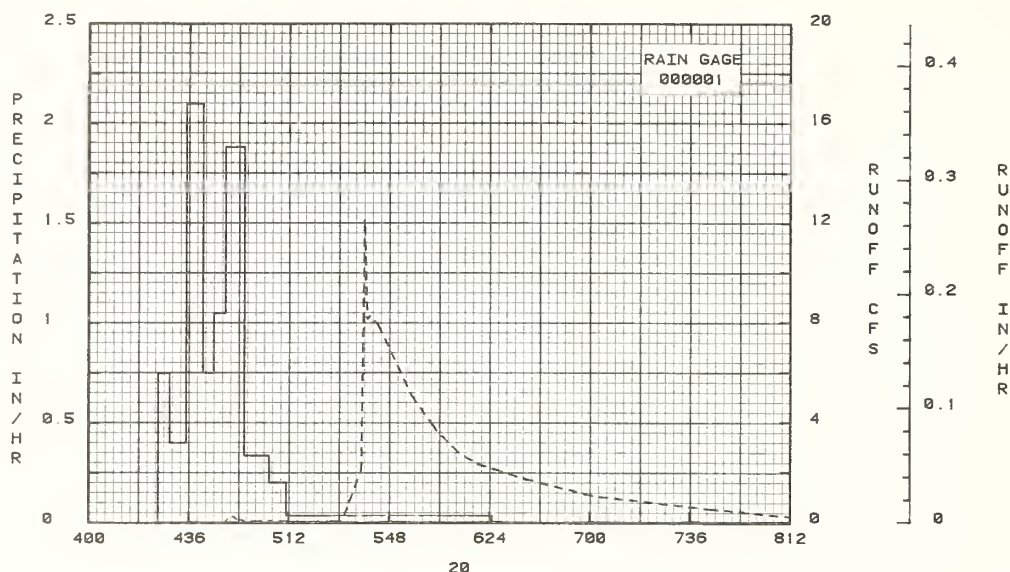
| 1963 SELECTED RUNOFF EVENT |           |          | MONTICELLO, ILLINOIS (ALLERTON) |           |           |          | WATERSHED IB |        |       |          |
|----------------------------|-----------|----------|---------------------------------|-----------|-----------|----------|--------------|--------|-------|----------|
| ANTECEDENT CONDITIONS      |           |          | RAINFALL                        |           |           |          | RUNOFF       |        |       |          |
| Date                       | Rainfall  | Runoff   | Date                            | Time      | Intensity | Acc.     | Date         | Time   | Rate  | Acc.     |
| Mo-Day                     | (inches)  | (inches) | Mo-Day                          | of Day    | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs) | (inches) |
| EVENT OF APRIL 22, 1963    |           |          |                                 |           |           |          |              |        |       |          |
| 4-22                       | RG 000001 | 0.0      | 4-22                            | RG 000001 | 0.0       | 0.0      | 4-22         | 607    | 0.0   | 0.0      |
|                            | 0.0       | 0.0      |                                 | 607       | 0.0       | 0.0      |              | 608    | 0.037 | 0.0      |
|                            |           |          |                                 | 617       | 3.6600    | 0.61     |              | 613    | 0.108 | 0.0001   |
|                            |           |          |                                 |           |           |          |              | 614    | 0.255 | 0.0002   |
|                            |           |          |                                 |           |           |          |              | 616    | 0.231 | 0.0004   |
|                            |           |          |                                 |           |           |          |              | 617    | 0.196 | 0.0005   |
|                            |           |          |                                 |           |           |          |              | 619    | 0.947 | 0.0009   |
|                            |           |          |                                 |           |           |          |              | 620    | 1.861 | 0.0014   |
|                            |           |          |                                 |           |           |          |              | 621    | 0.920 | 0.0019   |
|                            |           |          |                                 |           |           |          |              | 622    | 0.834 | 0.0022   |
|                            |           |          |                                 |           |           |          |              | 625    | 0.642 | 0.0030   |
|                            |           |          |                                 |           |           |          |              | 634    | 0.297 | 0.0045   |
|                            |           |          |                                 |           |           |          |              | 655    | 0.104 | 0.0061   |

WATERSHED CONDITIONS:  
For cropping information,  
see table, page 61.002-1.

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.



| 1964                   | SELECTED RUNOFF EVENT |                    |                | MONTICELLO, ILLINOIS (ALLERTON) |                      |                  |                | WATERSHED 1B   |               |                  |
|------------------------|-----------------------|--------------------|----------------|---------------------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS  |                       |                    | RAINFALL       |                                 |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day         | Rainfall<br>(inches)  | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                  | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF JUNE 20, 1964 |                       |                    |                |                                 |                      |                  |                |                |               |                  |
| 6-20                   | RG 000001<br>1.14     | 0.000              | 6-20           | RG 000001<br>425                | 0.0                  | 0.0              | 6-20           | 437            | 0.0           | 0.0              |
|                        |                       |                    |                | 429                             | 0.7500               | 0.05             |                | 449            | 0.015         | 0.0001           |
|                        |                       |                    |                | 435                             | 0.4001               | 0.09             |                | 450            | 0.153         | 0.0001           |
|                        |                       |                    |                | 441                             | 2.0999               | 0.30             |                | 452            | 0.243         | 0.0002           |
|                        |                       |                    |                | 445                             | 0.7500               | 0.35             |                | 453            | 0.153         | 0.0003           |
|                        |                       |                    |                | 449                             | 1.0499               | 0.42             |                | 454            | 0.107         | 0.0004           |
|                        |                       |                    |                | 456                             | 1.8857               | 0.64             |                | 456            | 0.058         | 0.0004           |
|                        |                       |                    |                | 505                             | 0.3334               | 0.69             |                | 459            | 0.044         | 0.0005           |
|                        |                       |                    |                | 511                             | 0.2000               | 0.71             |                | 502            | 0.061         | 0.0005           |
|                        |                       |                    |                | 625                             | 0.0324               | 0.75             |                | 505            | 0.071         | 0.0006           |
|                        |                       |                    |                |                                 |                      |                  |                | 506            | 0.050         | 0.0006           |
|                        |                       |                    |                |                                 |                      |                  |                | 523            | 0.025         | 0.0009           |
|                        |                       |                    |                |                                 |                      |                  |                | 531            | 0.032         | 0.0009           |
|                        |                       |                    |                |                                 |                      |                  |                | 538            | 2.092         | 0.0036           |
|                        |                       |                    |                |                                 |                      |                  |                | 539            | 12.127        | 0.0062           |
|                        |                       |                    |                |                                 |                      |                  |                | 540            | 8.168         | 0.0099           |
|                        |                       |                    |                |                                 |                      |                  |                | 541            | 8.287         | 0.0129           |
|                        |                       |                    |                |                                 |                      |                  |                | 544            | 7.886         | 0.0217           |
|                        |                       |                    |                |                                 |                      |                  |                | 556            | 5.071         | 0.0499           |
|                        |                       |                    |                |                                 |                      |                  |                | 605            | 3.663         | 0.0642           |
|                        |                       |                    |                |                                 |                      |                  |                | 613            | 2.787         | 0.0736           |
|                        |                       |                    |                |                                 |                      |                  |                | 620            | 2.320         | 0.0801           |
|                        |                       |                    |                |                                 |                      |                  |                | 626            | 2.115         | 0.0849           |
|                        |                       |                    |                |                                 |                      |                  |                | 637            | 1.717         | 0.0926           |
|                        |                       |                    |                |                                 |                      |                  |                | 701            | 1.047         | 0.1046           |
|                        |                       |                    |                |                                 |                      |                  |                | 746            | 0.486         | 0.1172           |
|                        |                       |                    |                |                                 |                      |                  |                | 841            | 0.206         | 0.1241           |
|                        |                       |                    |                |                                 |                      |                  |                | 926            | 0.078         | 0.1264           |



EVENT OF JUNE 20, 1964  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

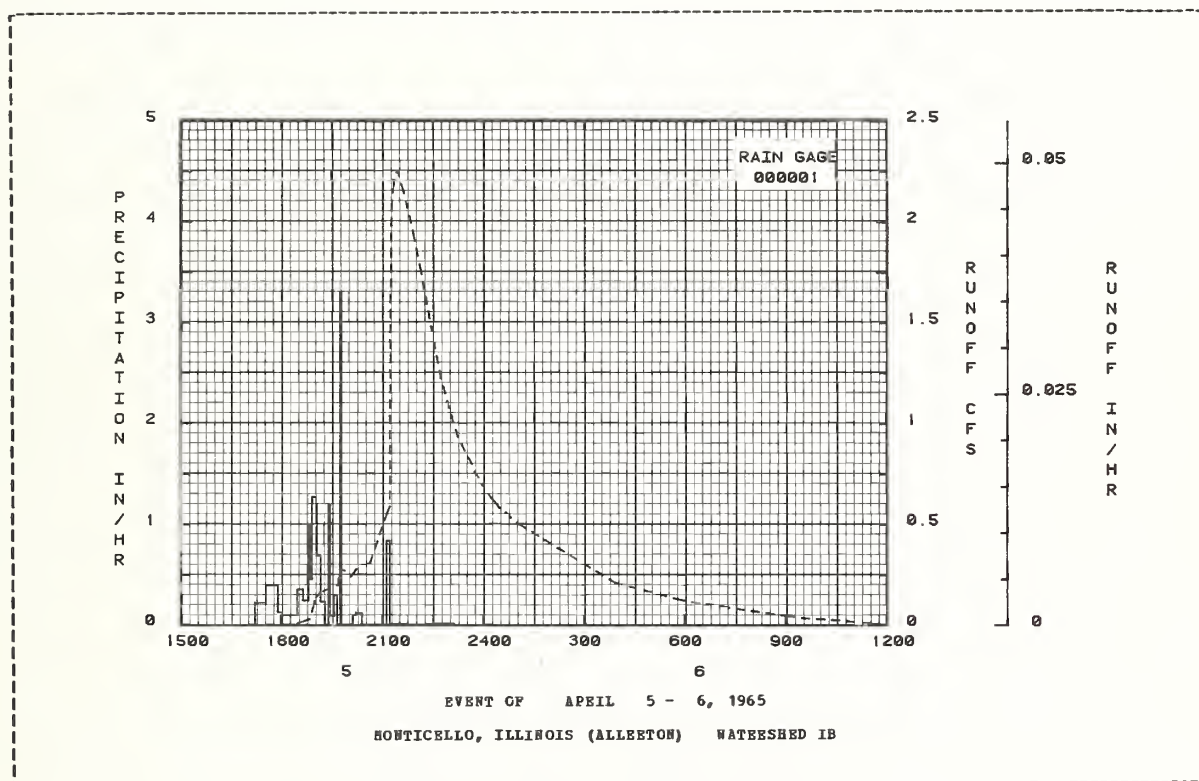
| 1965 SELECTED RUNOFF EVENT  |          |          | MONTICELLO, ILLINOIS (ALLERTON) |        |           |          |        |        | WATERSHED IB |          |
|---|----------|----------|---------------------------------|--------|-----------|----------|--------|--------|--------------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                        |        |           |          | RUNOFF |        |              |          |
| Date  | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date   | Time   | Rate         | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)        | (inches) |
| EVENT OF APRIL 5 - 6, 1965  |          |          |                                 |        |           |          |        |        |              |          |
| RG 000001   |          |          | RG 000001                       |        |           |          |        |        |              |          |
| 4- 5  | 0.83     | 0.001    | 4- 5                            | 1713   | 0.0       | 0.0      | 4- 5   | 1704   | 0.0          | 0.0      |
|   |          |          |                                 | 1732   | 0.2211    | 0.07     |        | 1738   | 0.003        | 0.0      |
|   |          |          |                                 | 1753   | 0.4000    | 0.21     |        | 1753   | 0.005        | 0.0      |
|   |          |          |                                 | 1803   | 0.1200    | 0.23     |        | 1804   | 0.002        | 0.0      |
|   |          |          |                                 | 1828   | 0.0960    | 0.27     |        | 1823   | 0.005        | 0.0      |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |          |          |                                 | 1838   | 0.3600    | 0.33     |        | 1828   | 0.011        | 0.0      |
|   |          |          |                                 | 1848   | 0.2400    | 0.37     |        | 1850   | 0.027        | 0.0002   |
|   |          |          |                                 | 1851   | 1.0000    | 0.42     |        | 1855   | 0.066        | 0.0003   |
|   |          |          |                                 | 1855   | 0.4500    | 0.45     |        | 1859   | 0.121        | 0.0004   |
|   |          |          |                                 | 1903   | 1.2750    | 0.62     |        | 1902   | 0.141        | 0.0006   |
|   |          |          |                                 | 1910   | 0.6857    | 0.70     |        | 1908   | 0.161        | 0.0009   |
|   |          |          |                                 | 1918   | 0.2250    | 0.73     |        | 1914   | 0.171        | 0.0013   |
|   |          |          |                                 | 1924   | 0.0       | 0.73     |        | 1941   | 0.197        | 0.0031   |
|   |          |          |                                 | 1927   | 1.2000    | 0.79     |        | 1944   | 0.281        | 0.0033   |
|   |          |          |                                 | 1934   | 0.0857    | 0.80     |        | 1953   | 0.274        | 0.0042   |
|   |          |          |                                 | 1940   | 0.3000    | 0.83     |        | 2004   | 0.243        | 0.0053   |
|   |          |          |                                 | 1945   | 0.0       | 0.83     |        | 2014   | 0.279        | 0.0062   |
|   |          |          |                                 | 1947   | 3.3000    | 0.94     |        | 2038   | 0.306        | 0.0088   |
|   |          |          |                                 | 2008   | 0.0       | 0.94     |        | 2113   | 0.586        | 0.0144   |
|   |          |          |                                 | 2014   | 0.1000    | 0.95     |        | 2115   | 1.874        | 0.0153   |
|   |          |          |                                 | 2024   | 0.1200    | 0.97     |        | 2116   | 2.072        | 0.0160   |
|   |          |          |                                 | 2108   | 0.0       | 0.97     |        | 2120   | 2.207        | 0.0191   |
|   |          |          |                                 | 2113   | 0.8400    | 1.04     |        | 2126   | 2.255        | 0.0240   |
|   |          |          |                                 | 2228   | 0.0080    | 1.05     |        | 2138   | 2.141        | 0.0336   |
|   |          |          |                                 | 2308   | 0.0150    | 1.06     |        | 2155   | 1.938        | 0.0462   |
|   |          |          |                                 |        |           |          | 2209   | 1.736  | 0.0555       |          |
|   |          |          |                                 |        |           |          | 2244   | 1.217  | 0.0743       |          |
|   |          |          |                                 |        |           |          | 2314   | 0.931  | 0.0860       |          |
|   |          |          |                                 |        |           |          | 2359   | 0.694  | 0.0993       |          |
|   |          |          |                                 |        |           |          | 2400   | 0.690  | 0.0995       |          |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.



| 1965 SELECTED RUNOFF EVENT             |                      |                    | MONTICELLO, ILLINOIS (ALLEETON) |                |                      |                  | WATERSHED 1B   |                |                  |
|--|----------------------|--------------------|---------------------------------|----------------|----------------------|------------------|----------------|----------------|------------------|
| ANTECEDENT CONDITIONS                  |                      |                    | RAINFALL                        |                |                      | RUNOFF           |                |                |                  |
| Date<br>Mo-Day                         | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                  | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs)    |
|  |                      |                    |                                 |                |                      |                  |                |                | Acc.<br>(inches) |
| EVENT OF APRIL 5 - 6, 1965 (CONTINUED) |                      |                    |                                 |                |                      |                  |                |                |                  |
|  |                      |                    |                                 |                |                      |                  | 4- 6           | 14             | 0.635 0.1029     |
|  |                      |                    |                                 |                |                      |                  |                | 29             | 0.585 0.1062     |
|  |                      |                    |                                 |                |                      |                  |                | 104            | 0.496 0.1131     |
|  |                      |                    |                                 |                |                      |                  |                | 355            | 0.212 0.1351     |
|  |                      |                    |                                 |                |                      |                  |                | 559            | 0.119 0.1426     |
|  |                      |                    |                                 |                |                      |                  |                | 915            | 0.035 0.1481     |
|  |                      |                    |                                 |                |                      |                  |                | 1134           | 0.009 0.1492     |
|  |                      |                    |                                 |                |                      |                  |                | 1136           | 0.009 0.1492     |

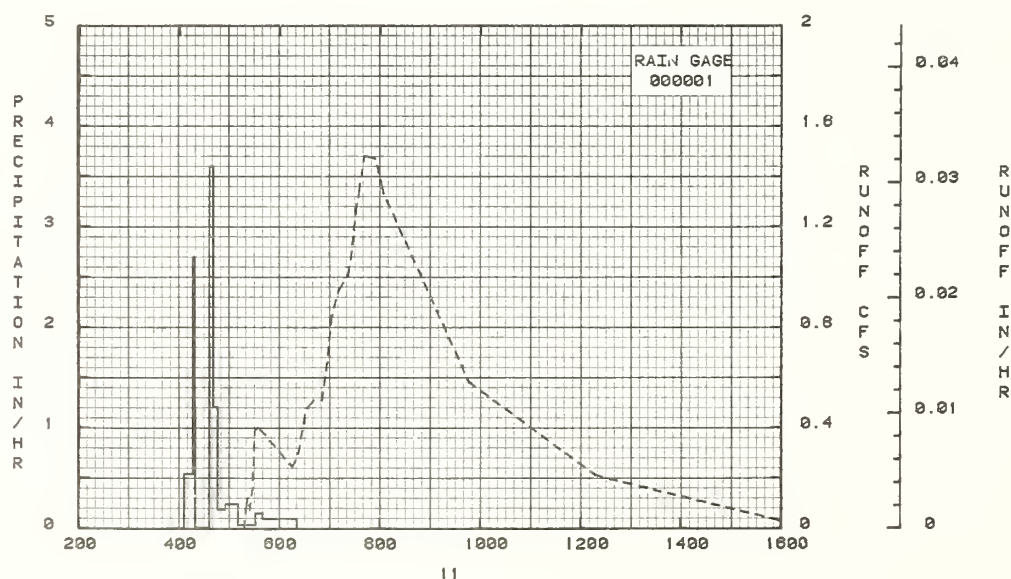
NOTES: To convert runoff in CFS to IN/DAI, multiply by 0.021796.





| 1965  | SELECTED RUNOFF EVENT |          |           | MONTICELLO, ILLINOIS (ALLERTON) |           |          | WATERSHED 1B |        |        |          |
|---|-----------------------|----------|-----------|---------------------------------|-----------|----------|--------------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL  |                                 |           | RUNOFF   |              |        |        |          |
| Date  | Rainfall              | Runoff   | Date      | Time                            | Intensity | Acc.     | Date         | Time   | Rate   | Acc.     |
| Mo-Day  | (inches)              | (inches) | Mo-Day    | of Day                          | (in/hr)   | (inches) | Mo-Day       | of Day | (cfs)  | (inches) |
| EVENT OF APRIL 11, 1965   |                       |          |           |                                 |           |          |              |        |        |          |
| RG 000001   |                       |          | RG 000001 |                                 |           |          |              |        |        |          |
| 4-11  | 0.02                  | 0.0      | 4-11      | 406                             | 0.0       | 0.0      | 4-11         | 518    | 0.0    | 0.0      |
|   |                       |          |           | 416                             | 0.5400    | 0.09     |              | 520    | 0.074  | 0.0001   |
|   |                       |          |           | 418                             | 2.7000    | 0.18     |              | 523    | 0.124  | 0.0002   |
|   |                       |          |           | 419                             | 1.2000    | 0.20     |              | 525    | 0.074  | 0.0002   |
|   |                       |          |           | 436                             | 0.0       | 0.20     |              | 528    | 0.163  | 0.0004   |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |                       |          |           | 441                             | 3.6000    | 0.50     |              | 531    | 0.389  | 0.0007   |
|   |                       |          |           | 446                             | 1.2000    | 0.60     |              | 534    | 0.405  | 0.0011   |
|   |                       |          |           | 456                             | 0.1800    | 0.63     |              | 537    | 0.390  | 0.0015   |
|   |                       |          |           | 511                             | 0.2400    | 0.69     |              | 543    | 0.374  | 0.0024   |
|   |                       |          |           | 532                             | 0.0286    | 0.70     |              | 601    | 0.296  | 0.0046   |
|   |                       |          |           | 540                             | 0.1500    | 0.72     |              | 616    | 0.243  | 0.0060   |
|   |                       |          |           | 621                             | 0.0878    | 0.78     |              | 623    | 0.296  | 0.0067   |
|   |                       |          |           |                                 |           |          |              | 631    | 0.447  | 0.0078   |
|   |                       |          |           |                                 |           |          |              | 634    | 0.476  | 0.0083   |
|   |                       |          |           |                                 |           |          |              | 641    | 0.506  | 0.0095   |
|   |                       |          |           |                                 |           |          | 651          | 0.515  | 0.0114 |          |
|   |                       |          |           |                                 |           |          | 656          | 0.627  | 0.0124 |          |
|   |                       |          |           |                                 |           |          | 703          | 0.853  | 0.0143 |          |
|   |                       |          |           |                                 |           |          | 711          | 0.954  | 0.0170 |          |
|   |                       |          |           |                                 |           |          | 722          | 1.014  | 0.0209 |          |
|   |                       |          |           |                                 |           |          |              | 726    | 1.097  | 0.0224   |
|   |                       |          |           |                                 |           |          |              | 731    | 1.264  | 0.0246   |
|   |                       |          |           |                                 |           |          |              | 736    | 1.367  | 0.0270   |
|   |                       |          |           |                                 |           |          |              | 741    | 1.479  | 0.0295   |
|   |                       |          |           |                                 |           |          |              | 754    | 1.466  | 0.0365   |
|   |                       |          |           |                                 |           |          |              | 804    | 1.330  | 0.0416   |
|   |                       |          |           |                                 |           |          |              | 819    | 1.220  | 0.0485   |
|   |                       |          |           |                                 |           |          |              | 947    | 0.583  | 0.0773   |
|   |                       |          |           |                                 |           |          |              | 1218   | 0.211  | 0.0991   |
|   |                       |          |           |                                 |           |          |              | 1558   | 0.034  | 0.1089   |

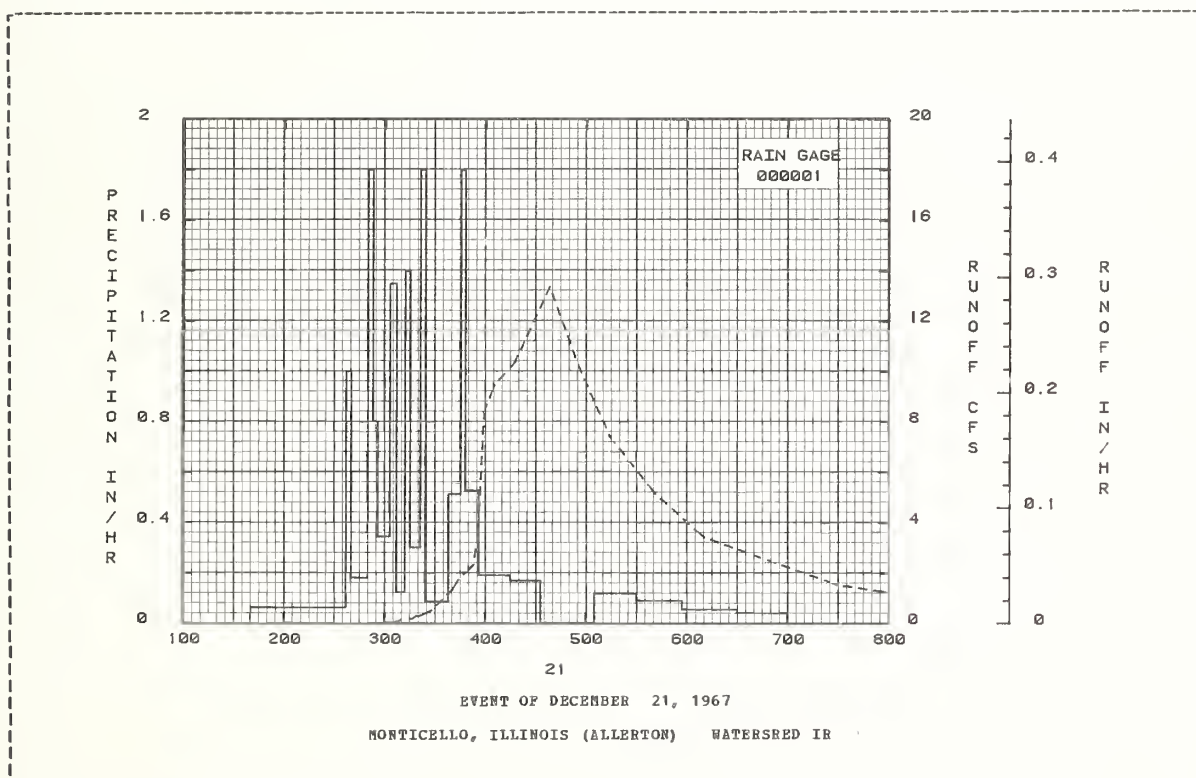
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.



EVENT OF APRIL 11, 1965  
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B

| 1967 SELECTED RUNOFF EVENT  |                      |                    | MONTICELLO, ILLINOIS (ALLERTON) |                |                      | WATERSHED IR     |                |                  |
|---|----------------------|--------------------|---------------------------------|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                        |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                  | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|   |                      |                    |                                 |                |                      |                  |                | Rate<br>(cfs)    |
|   |                      |                    |                                 |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF DECEMBER 21, 1967  |                      |                    |                                 |                |                      |                  |                |                  |
| RG 000001   |                      |                    | RG 000001                       |                |                      |                  |                |                  |
| 12-21   | 0.0                  | 0.0                | 12-21                           | 140            | 0.0                  | 0.0              | 12-21          | 258              |
|   |                      |                    |                                 | 237            | 0.0632               | 0.06             |                | 302              |
|   |                      |                    |                                 | 240            | 1.0001               | 0.11             |                | 307              |
|   |                      |                    |                                 | 250            | 0.1800               | 0.14             |                | 310              |
|   |                      |                    |                                 | 253            | 1.7999               | 0.23             |                | 317              |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |                      |                    |                                 | 256            | 0.8002               | 0.27             |                | 319              |
|   |                      |                    |                                 | 303            | 0.3428               | 0.31             |                | 320              |
|   |                      |                    |                                 | 307            | 1.3499               | 0.40             |                | 328              |
|   |                      |                    |                                 | 312            | 0.1201               | 0.41             |                | 340              |
|   |                      |                    |                                 | 315            | 1.3998               | 0.48             |                | 344              |
|   |                      |                    |                                 | 321            | 0.3000               | 0.51             |                | 353              |
|   |                      |                    |                                 | 324            | 1.8002               | 0.60             |                | 356              |
|   |                      |                    |                                 | 338            | 0.0857               | 0.62             |                | 359              |
|   |                      |                    |                                 | 345            | 0.5143               | 0.68             |                | 405              |
|   |                      |                    |                                 | 348            | 1.8002               | 0.77             |                | 417              |
|   |                      |                    |                                 | 356            | 0.5249               | 0.84             |                | 438              |
|   |                      |                    |                                 | 415            | 0.1895               | 0.90             |                | 455              |
|   |                      |                    |                                 | 433            | 0.1667               | 0.95             |                | 514              |
|   |                      |                    |                                 | 505            | 0.0                  | 0.95             |                | 541              |
|   |                      |                    |                                 | 530            | 0.1200               | 1.00             |                | 610              |
|   |                      |                    |                                 | 557            | 0.0889               | 1.04             |                | 729              |
|   |                      |                    |                                 | 630            | 0.0545               | 1.07             |                | 804              |
|   |                      |                    |                                 | 700            | 0.0400               | 1.09             |                | 844              |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.

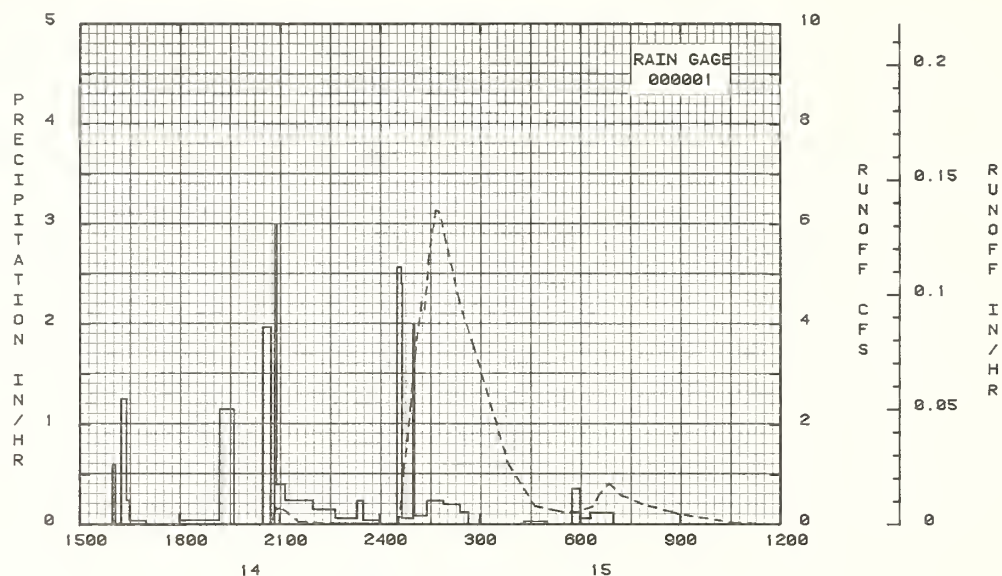




| 1968  | SELECTED RUNOFF EVENT |          |           |        |           |          | MONTICELLO, ILLINOIS (ALLERTON) |        |        | WATERSHED ID |  |
|---|-----------------------|----------|-----------|--------|-----------|----------|---------------------------------|--------|--------|--------------|--|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL  |        |           |          | RUNOFF                          |        |        |              |  |
| Date  | Rainfall              | Runoff   | Date      | Time   | Intensity | Acc.     | Date                            | Time   | Rate   | Acc.         |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day                          | of Day | (cfs)  | (inches)     |  |
| EVENT OF JUNE 14 - 15, 1968   |                       |          |           |        |           |          |                                 |        |        |              |  |
| RG 000001   |                       |          | RG 000001 |        |           |          |                                 |        |        |              |  |
| 6-14  | 0.0                   | 0.0      | 6-14      | 1600   | 0.0       | 0.0      | 6-14                            | 1614   | 0.0    | 0.0          |  |
|   |                       |          |           | 1605   | 0.6000    | 0.05     |                                 | 1621   | 0.004  | 0.0          |  |
|   |                       |          |           | 1615   | 0.0       | 0.05     |                                 | 1628   | 0.003  | 0.0          |  |
|   |                       |          |           | 1625   | 1.2600    | 0.26     |                                 | 1638   | 0.001  | 0.0          |  |
|   |                       |          |           | 1630   | 0.2401    | 0.28     |                                 | 1649   | 0.0    | 0.0          |  |
| WATERSHED CONDITIONS:<br>For cropping information,<br>see table, page 61.002-1. |                       |          |           | 1700   | 0.0400    | 0.30     |                                 | 1906   | 0.004  | 0.0001       |  |
|   |                       |          |           | 1800   | 0.0       | 0.30     |                                 | 1915   | 0.003  | 0.0001       |  |
|   |                       |          |           | 1912   | 0.0417    | 0.35     |                                 | 1919   | 0.0    | 0.0001       |  |
|   |                       |          |           | 1938   | 1.1538    | 0.85     |                                 | 1944   | 0.0    | 0.0001       |  |
|   |                       |          |           | 2030   | 0.0       | 0.85     |                                 | 2029   | 0.004  | 0.0001       |  |
|   |                       |          |           | 2044   | 1.9715    | 1.31     |                                 | 2040   | 0.019  | 0.0002       |  |
|   |                       |          |           | 2051   | 0.0       | 1.31     |                                 | 2044   | 0.026  | 0.0002       |  |
|   |                       |          |           | 2055   | 3.0000    | 1.51     |                                 | 2047   | 0.013  | 0.0002       |  |
|   |                       |          |           | 2110   | 0.4000    | 1.61     |                                 | 2050   | 0.106  | 0.0003       |  |
|   |                       |          |           | 2200   | 0.2400    | 1.81     |                                 | 2054   | 0.342  | 0.0006       |  |
|   |                       |          | 2240      | 0.1500 | 1.91      |          | 2056                            | 0.308  | 0.0009 |              |  |
|   |                       |          | 2320      | 0.0600 | 1.95      |          | 2100                            | 0.330  | 0.0013 |              |  |
|   |                       |          | 2330      | 0.2400 | 1.99      |          | 2107                            | 0.301  | 0.0021 |              |  |
|   |                       |          | 2400      | 0.0400 | 2.01      |          | 2135                            | 0.046  | 0.0039 |              |  |
|   |                       |          | 6-15      | 31     | 0.0       | 2.01     |                                 | 2149   | 0.055  | 0.0042       |  |
|   |                       |          |           | 38     | 2.5715    | 2.31     |                                 | 2209   | 0.031  | 0.0045       |  |
|   |                       |          |           | 40     | 2.4001    | 2.39     |                                 | 2219   | 0.024  | 0.0046       |  |
|   |                       |          |           | 100    | 0.0600    | 2.41     |                                 | 2259   | 0.019  | 0.0049       |  |
|   |                       |          |           | 103    | 2.0001    | 2.51     |                                 | 2319   | 0.012  | 0.0050       |  |
|   |                       |          |           | 125    | 0.0818    | 2.54     |                                 | 2339   | 0.007  | 0.0051       |  |
|   |                       |          |           | 155    | 0.2400    | 2.66     |                                 | 2359   | 0.004  | 0.0051       |  |
|   |                       |          |           | 225    | 0.2000    | 2.76     |                                 | 2400   | 0.004  | 0.0051       |  |
|   |                       |          |           | 240    | 0.1200    | 2.79     | 6-15                            | 30     | 0.012  | 0.0052       |  |
|   |                       |          |           | 420    | 0.0       | 2.79     |                                 | 33     | 0.051  | 0.0052       |  |
|   |                       |          |           | 500    | 0.0300    | 2.81     |                                 | 36     | 0.164  | 0.0053       |  |
|   |                       |          |           | 545    | 0.0       | 2.81     |                                 | 42     | 0.824  | 0.0064       |  |
|   |                       |          |           | 600    | 0.3600    | 2.90     |                                 | 44     | 1.215  | 0.0072       |  |
|   |                       |          |           | 620    | 0.0600    | 2.92     |                                 | 50     | 1.666  | 0.0103       |  |
|   |                       |          |           | 700    | 0.1200    | 3.00     |                                 | 55     | 2.362  | 0.0140       |  |
|   |                       |          |           |        |           |          |                                 | 105    | 3.531  | 0.0247       |  |
|   |                       |          |           |        |           |          |                                 | 115    | 4.446  | 0.0392       |  |
|   |                       |          |           |        |           |          |                                 | 121    | 4.288  | 0.0487       |  |
|   |                       |          |           |        |           |          |                                 | 127    | 5.253  | 0.0591       |  |
|   |                       |          |           |        |           |          |                                 | 140    | 6.266  | 0.0863       |  |
|   |                       |          |           |        |           |          |                                 | 147    | 6.227  | 0.1021       |  |
|   |                       |          |           |        |           |          |                                 | 224    | 4.396  | 0.1735       |  |
|   |                       |          |           |        |           |          |                                 | 252    | 3.422  | 0.2133       |  |
|   |                       |          |           |        |           |          |                                 | 351    | 1.202  | 0.2629       |  |
|   |                       |          |           |        |           |          |                                 | 439    | 0.364  | 0.2765       |  |
|   |                       |          |           |        |           |          |                                 | 529    | 0.240  | 0.2820       |  |
|   |                       |          |           |        |           |          |                                 | 559    | 0.250  | 0.2847       |  |
|   |                       |          |           |        |           |          |                                 | 609    | 0.315  | 0.2857       |  |
|   |                       |          |           |        |           |          |                                 | 622    | 0.357  | 0.2873       |  |
|   |                       |          |           |        |           |          |                                 | 639    | 0.665  | 0.2904       |  |
|   |                       |          |           |        |           |          |                                 | 652    | 0.822  | 0.2939       |  |
|   |                       |          |           |        |           |          |                                 | 714    | 0.579  | 0.2995       |  |
|   |                       |          |           |        |           |          |                                 | 752    | 0.410  | 0.3064       |  |
|   |                       |          |           |        |           |          |                                 | 856    | 0.208  | 0.3136       |  |
|   |                       |          |           |        |           |          |                                 | 1035   | 0.032  | 0.3179       |  |
|   |                       |          |           |        |           |          |                                 | 1159   | 0.0    | 0.3184       |  |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.





EVENT OF JUNE 14 - 15, 1968  
MORTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

OXFORD, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chews Creek, Pigeon Hoost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 28 sec. N.; Long. 89 deg. 29 min. 39 sec. W.

AREA: 1580.00 acres 2.47 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |                        |                  |           |                   |           |                   | OXFORD, MISSISSIPPI |                    |           |                 | WATERSHED W-4C |                  |           |                  |           |       |
|---|------------------------|------------------|-----------|-------------------|-----------|-------------------|---------------------|--------------------|-----------|-----------------|----------------|------------------|-----------|------------------|-----------|-------|
|   |                        | Jan              | Feb       | Mar               | Apr       | May               | Jun                 | Jul                | Aug       | Sep             | Oct            | Nov              | Dec       | Annual           |           |       |
| 1974  | P                      | 12.03            | 3.40      | 2.23              | 4.59      | 8.13              | 4.86                | 4.87               | 6.08      | 5.41            | 2.75           | 4.22             | 5.61      | 64.18            |           |       |
|   | Q                      | 4.253            | 0.552     | 0.060             | 0.268     | 0.571             | 0.544               | 0.160              | 0.363     | 0.169           | 0.062          | 0.263            | 0.424     | 7.687            |           |       |
| STA AV  | P                      | 4.48             | 4.49      | 5.01              | 5.08      | 4.45              | 3.17                | 4.11               | 3.66      | 4.41            | 2.59           | 4.82             | 5.34      | 51.60            |           |       |
|   | Q                      | 0.874            | 0.932     | 0.923             | 0.753     | 0.330             | 0.134               | 0.247              | 0.203     | 0.278           | 0.100          | 0.579            | 0.748     | 6.101            |           |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |                        |                  |           |                   |           |                   |                     |                    |           |                 |                |                  |           |                  |           |       |
|   | Maximum Discharge Date | 1 Hour Date Vol. |           | 2 Hours Date Vol. |           | 6 Hours Date Vol. |                     | 12 Hours Date Vol. |           | 1 Day Date Vol. |                | 2 Days Date Vol. |           | 8 Days Date Vol. |           |       |
| 1974  | 1-10                   | 0.182            | 1-10      | 0.179             | 1-10      | 0.346             | 1-10                | 0.918              | 1-10      | 1.718           | 1-10           | 2.695            | 1- 9      | 3.232            | 1- 9      | 3.718 |
| MAXIMUMS FOR PERIOD OF RECORD   |                        |                  |           |                   |           |                   |                     |                    |           |                 |                |                  |           |                  |           |       |
|   | 2-23 1962              | 0.840            | 2-23 1962 | 0.720             | 2-23 1962 | 1.130             | 3- 4 1964           | 1.560              | 1-10 1974 | 1.718           | 1-10 1974      | 2.695            | 1-30 1957 | 3.340            | 1-27 1957 | 3.900 |

NOTES: Watershed conditions: About 13% in cultivation (cotton, corn, soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 42% in pasture and idle land, good cover April to October with fair cover remainder of year; 44% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. Reported as Watershed W-4 prior to 1965 and from 1965-68 as Watershed W-4A; redesignated as W-4C (1969). Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 32% of drainage area above small desilting and retention dams. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

| 1974 DAILY AIR TEMPERATURE (degrees F) |         |         |         |         |         |         |         |         |         |         |         |         |         | OXFORD, MISSISSIPPI WATERSHED W-4C |  |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------------------|--|
| Day                                    | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |         |                                    |  |
|  | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min |                                    |  |
| 1                                      | 28 18   | 72 40   | 73 56   | 79 60   | 68 62   | 72 63   | 87 68   | 87 66   | 79 66   | 72 42   | 78 66   | 38 31   |         |                                    |  |
| 2                                      | 32 23   | 74 50   | 72 60   | 78 45   | 78 65   | 80 60   | 88 69   | 86 70   | 77 68   | 63 37   | 82 58   | 38 31   |         |                                    |  |
| 3                                      | 33 24   | 49 31   | 76 64   | 84 68   | 82 67   | 83 55   | 90 70   | 85 66   | 64 50   | 68 33   | 81 58   | 48 22   |         |                                    |  |
| 4                                      | 28 24   | 52 28   | 76 64   | 74 38   | 68 60   | 84 60   | 89 69   | 84 60   | 71 44   | 72 38   | 69 52   | 54 18   |         |                                    |  |
| 5                                      | 34 28   | 61 34   | 67 56   | 58 36   | 67 51   | 78 68   | 86 69   | 84 55   | 74 51   | 74 46   | 60 40   | 58 23   |         |                                    |  |
| 6                                      | 36 34   | 64 40   | 76 56   | 64 29   | 76 45   | 83 59   | 88 66   | 86 58   | 78 62   | 78 41   | 55 35   | 51 37   |         |                                    |  |
| 7                                      | 34 30   | 36 31   | 79 60   | 66 45   | 78 48   | 80 64   | 89 70   | 83 65   | 81 60   | 66 46   | 51 35   | 53 43   |         |                                    |  |
| 8                                      | 56 30   | 32 26   | 80 62   | 58 41   | 75 58   | 82 68   | 86 70   | 84 69   | 70 68   | 70 43   | 59 38   | 43 19   |         |                                    |  |
| 9                                      | 60 44   | 44 24   | 80 56   | 60 32   | 77 56   | 84 70   | 88 69   | 88 72   | 82 70   | 76 45   | 66 35   | 42 19   |         |                                    |  |
| 10                                     | 63 36   | 54 30   | 80 54   | 69 37   | 84 64   | 76 62   | 92 67   | 89 70   | 85 70   | 80 44   | 67 54   | 54 25   |         |                                    |  |
| 11                                     | 39 28   | 54 32   | 70 62   | 74 52   | 70 63   | 83 56   | 90 67   | 88 71   | 86 69   | 80 47   | 59 40   | 50 38   |         |                                    |  |
| 12                                     | 37 26   | 66 34   | 65 47   | 68 57   | 78 55   | 79 62   | 92 67   | 89 68   | 86 68   | 84 49   | 54 35   | 50 34   |         |                                    |  |
| 13                                     | 46 24   | 66 49   | 57 43   | 75 57   | 85 50   | 83 56   | 91 68   | 84 67   | 98 61   | 80 53   | 64 36   | 57 30   |         |                                    |  |
| 14                                     | 52 43   | 62 50   | 68 35   | 74 54   | 84 64   | 86 60   | 92 62   | 84 66   | 71 55   | 80 58   | 50 26   | 60 31   |         |                                    |  |
| 15                                     | 55 50   | 50 44   | 74 47   | 63 43   | 67 62   | 82 62   | 94 68   | 87 69   | 78 52   | 56 48   | 50 22   | 52 35   |         |                                    |  |
| 16                                     | 70 53   | 52 35   | 56 36   | 65 41   | 85 66   | 76 58   | 92 68   | 87 68   | 77 55   | 64 37   | 54 30   | 45 30   |         |                                    |  |
| 17                                     | 69 60   | 60 28   | 58 31   | 67 37   | 86 70   | 78 52   | 93 70   | 91 69   | 74 58   | 75 39   | 53 42   | 40 24   |         |                                    |  |
| 18                                     | 72 60   | 56 42   | 70 42   | 73 40   | 89 70   | 80 61   | 94 72   | 88 68   | 82 52   | 79 43   | 57 50   | 59 26   |         |                                    |  |
| 19                                     | 71 62   | 49 44   | 80 47   | 82 46   | 91 66   | 87 65   | 95 71   | 89 65   | 85 53   | 64 41   | 73 57   | 54 30   |         |                                    |  |
| 20                                     | 66 51   | 60 30   | 64 46   | 81 57   | 89 69   | 90 70   | 88 72   | 89 65   | 86 60   | 68 35   | 62 40   | 58 30   |         |                                    |  |
| 21                                     | 65 42   | 62 45   | 51 31   | 72 62   | 84 69   | 89 72   | 95 66   | 90 65   | 71 55   | 63 34   | 65 37   | 57 31   |         |                                    |  |
| 22                                     | 72 47   | 51 31   | 56 25   | 69 53   | 72 64   | 88 69   | 96 68   | 89 67   | 68 49   | 70 40   | 72 36   | 66 33   |         |                                    |  |
| 23                                     | 61 43   | 55 26   | 68 30   | 72 48   | 80 62   | 76 61   | 74 69   | 90 66   | 68 42   | 73 38   | 74 48   | 59 48   |         |                                    |  |
| 24                                     | 43 40   | 48 21   | 44 28   | 62 42   | 84 60   | 72 55   | 86 68   | 91 67   | 66 47   | 77 41   | 62 42   | 68 47   |         |                                    |  |
| 25                                     | 52 42   | 34 21   | 61 35   | 72 38   | 78 62   | 75 50   | 89 68   | 91 68   | 60 54   | 78 46   | 48 28   | 47 33   |         |                                    |  |
| 26                                     | 63 52   | 49 19   | 70 36   | 80 44   | 68 60   | 77 49   | 82 70   | 91 70   | 70 58   | 80 48   | 54 24   | 40 32   |         |                                    |  |
| 27                                     | 68 49   | 58 32   | 61 54   | 82 53   | 76 52   | 78 52   | 86 67   | 89 72   | 74 61   | 79 48   | 53 27   | 47 40   |         |                                    |  |
| 28                                     | 63 56   | 63 50   | 74 50   | 82 60   | 82 57   | 83 53   | 88 68   | 87 70   | 82 60   | 73 51   | 59 25   | 49 43   |         |                                    |  |
| 29                                     | 59 39   |         | 80 54   | 81 63   | 84 68   | 84 58   | 90 69   | 83 70   | 70 48   | 76 63   | 57 30   | 59 49   |         |                                    |  |
| 30                                     | 64 32   |         | 74 50   | 81 64   | 86 69   | 86 64   | 84 66   | 74 70   | 78 42   | 79 65   | 42 31   | 57 53   |         |                                    |  |
| 31                                     | 70 43   |         | 86 44   |         | 78 68   |         | 88 66   | 77 67   |         | 80 62   |         | 72 52   |         |                                    |  |
| AV.                                    | 54 40   | 55 35   | 69 47   | 72 48   | 79 61   | 81 60   | 89 68   | 87 67   | 76 57   | 73 45   | 61 39   | 52 33   |         |                                    |  |
| MEAN                                   | 46.7    | 44.7    | 58.2    | 60.2    | 70.2    | 70.8    | 78.7    | 76.9    | 66.7    | 59.4    | 50.2    | 43.0    |         |                                    |  |
| STA AV                                 | 47 29   | 52 31   | 61 39   | 72 50   | 80 57   | 86 64   | 89 68   | 89 67   | 82 60   | 73 48   | 62 38   | 51 31   |         |                                    |  |

NOTES: Temperature data from National Weather Service at Holly Springs, 4N, Mississippi. STA AV is for 18 yr (1957-74) record period.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | OXFORD, MISSISSIPPI WATERSHED W-4C |      |      |      |      |      |      |
|--------|------------------------------|------|------|------|------|------------------------------------|------|------|------|------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                                | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1      | 0.0                          | 0.09 | 0.0  | 0.15 | 0.26 | 1.29                               | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.08 |
| 2      | 0.13                         | 0.0  | 0.0  | 0.0  | 0.70 | 0.0                                | 0.0  | 0.0  | 1.14 | 0.0  | 0.0  | 0.0  |
| 3      | 1.51                         | 0.0  | 0.0  | 0.0  | 0.14 | 0.0                                | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.59 | 0.0                                | 0.32 | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  |
| 5      | 0.19                         | 0.0  | 0.01 | 0.0  | 0.0  | 0.47                               | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6      | 0.37                         | 0.10 | 0.28 | 0.0  | 0.0  | 0.01                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 |
| 7      | 0.07                         | 0.0  | 0.0  | 0.11 | 0.0  | 0.51                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 |
| 8      | 0.18                         | 0.0  | 0.0  | 0.46 | 0.06 | 0.66                               | 0.0  | 0.0  | 1.09 | 0.0  | 0.0  | 0.0  |
| 9      | 2.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.48                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10     | 4.61                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.21                               | 0.0  | 0.17 | 0.0  | 0.0  | 0.28 | 0.0  |
| 11     | 0.08                         | 0.0  | 0.32 | 0.01 | 0.19 | 0.0                                | 0.0  | 0.37 | 0.40 | 0.0  | 0.22 | 0.55 |
| 12     | 0.0                          | 0.0  | 0.0  | 1.74 | 0.0  | 0.0                                | 0.0  | 1.01 | 0.0  | 0.0  | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.74 | 0.0  | 0.0  | 0.0  | 0.0  |
| 14     | 0.49                         | 0.99 | 0.0  | 0.50 | 0.33 | 0.0                                | 0.0  | 0.0  | 0.06 | 0.53 | 0.01 | 0.35 |
| 15     | 0.05                         | 0.34 | 0.0  | 0.0  | 2.24 | 0.57                               | 0.0  | 1.89 | 0.0  | 1.67 | 0.0  | 0.54 |
| 16     | 0.0                          | 0.18 | 0.14 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.67 | 0.0  | 0.0  | 0.58 | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |
| 18     | 0.0                          | 0.93 | 0.0  | 0.0  | 0.0  | 0.57                               | 0.0  | 0.05 | 0.0  | 0.0  | 0.03 | 0.0  |
| 19     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.74 | 0.0  |
| 20     | 0.43                         | 0.0  | 0.68 | 0.0  | 0.12 | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21     | 0.0                          | 0.77 | 0.51 | 0.04 | 0.01 | 0.0                                | 0.0  | 0.0  | 0.95 | 0.0  | 0.0  | 0.0  |
| 22     | 0.01                         | 0.0  | 0.0  | 1.54 | 2.00 | 0.09                               | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23     | 0.14                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 3.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 |
| 24     | 0.72                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 1.86 |
| 25     | 0.0                          | 0.0  | 0.09 | 0.0  | 0.0  | 0.0                                | 0.02 | 0.0  | 0.74 | 0.0  | 0.0  | 0.06 |
| 26     | 0.32                         | 0.0  | 0.0  | 0.0  | 0.32 | 0.0                                | 1.26 | 0.02 | 0.13 | 0.0  | 0.0  | 0.14 |
| 27     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.02 | 0.76 | 0.0  | 0.0  | 0.86 |
| 28     | 0.69                         | 0.0  | 0.19 | 0.0  | 0.0  | 0.0                                | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.06 |
| 29     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                | 0.0  | 0.41 | 0.0  | 0.52 | 0.01 | 0.38 |
| 30     | 0.0                          | 0.0  | 0.0  | 0.04 | 0.0  | 0.0                                | 0.0  | 0.63 | 0.0  | 0.0  | 0.06 | 0.06 |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 1.17 | 0.0                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |
| TOTAL  | 12.03                        | 3.40 | 2.23 | 4.59 | 8.13 | 4.86                               | 4.87 | 6.08 | 5.41 | 2.75 | 4.22 | 5.61 |
| STA AV | 4.48                         | 4.49 | 5.01 | 5.08 | 4.45 | 3.17                               | 4.11 | 3.66 | 4.41 | 2.59 | 4.82 | 5.34 |

NOTES: Daily precipitation values Thiessen weighted from rain gages 7, 8 and 18. STA AV based on 18 yr (1957-74) record period.

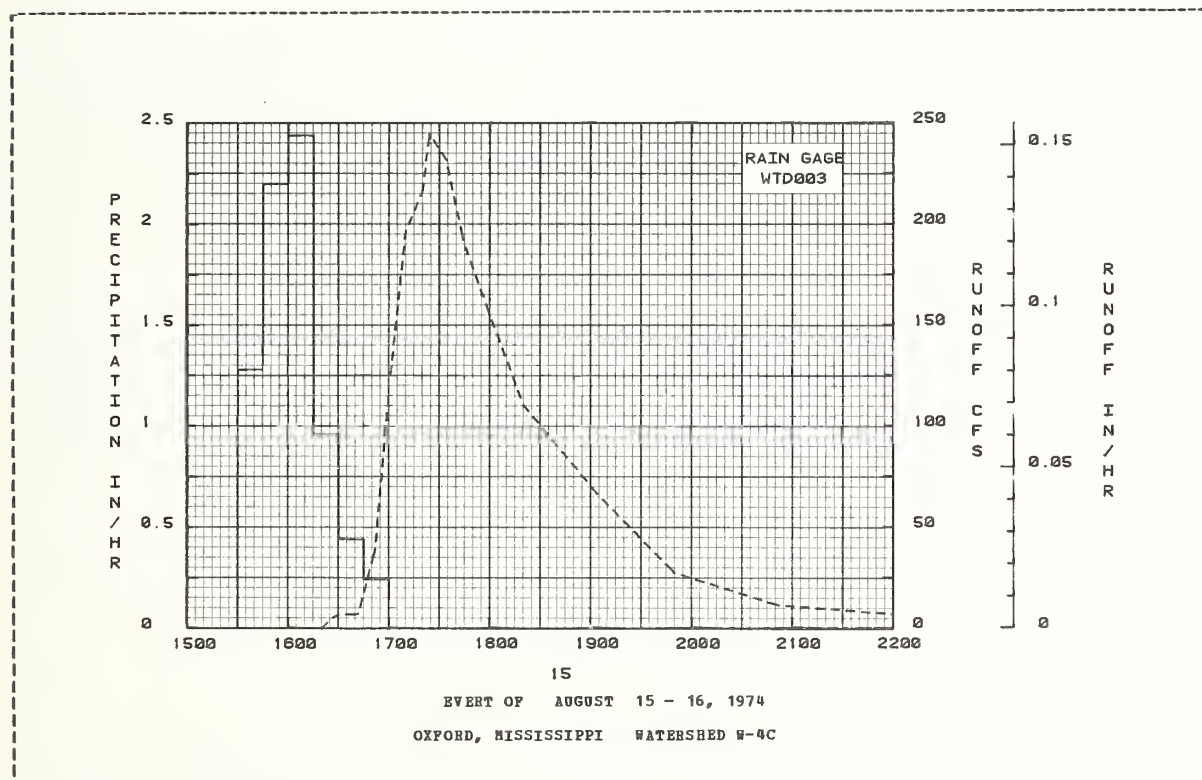
| 1974   | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | OXFORD, MISSISSIPPI WATERSHED W-4C |        |        |        |        |        |        |
|--------|----------------------------|--------|--------|--------|--------|------------------------------------|--------|--------|--------|--------|--------|--------|
| Day    | Jan                        | Feb    | Mar    | Apr    | May    | Jun                                | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1      | 0.0                        | 0.47   | 0.29   | 0.0    | 0.0    | 22.21                              | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2      | 0.0                        | 0.47   | 0.29   | 0.0    | 0.77   | 0.51                               | 0.0    | 0.0    | 4.11   | 0.0    | 0.0    | 0.0    |
| 3      | 13.38                      | 0.47   | 0.29   | 0.0    | 0.9    | 0.38                               | 0.0    | 0.0    | 0.01   | 0.0    | 0.0    | 0.0    |
| 4      | 0.69                       | 0.47   | 0.29   | 0.0    | 1.91   | 0.29                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.96   | 0.0    |
| 5      | 0.38                       | 0.47   | 0.29   | 0.0    | 0.05   | 0.96                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.01   | 0.0    |
| 6      | 0.72                       | 0.47   | 0.52   | 0.0    | 0.0    | 0.29                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7      | 0.81                       | 0.47   | 0.15   | 0.0    | 0.0    | 1.09                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8      | 0.38                       | 0.47   | 0.0    | 0.0    | 0.0    | 3.42                               | 0.0    | 0.0    | 2.94   | 0.0    | 0.0    | 0.0    |
| 9      | 50.27                      | 0.47   | 0.0    | 0.0    | 0.0    | 0.52                               | 0.0    | 0.0    | 0.02   | 0.0    | 0.0    | 0.0    |
| 10     | 150.51                     | 0.47   | 0.0    | 0.0    | 0.0    | 4.44                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 11     | 40.03                      | 0.47   | 0.21   | 0.0    | 0.0    | 0.29                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.27   |
| 12     | 1.65                       | 0.47   | 0.0    | 5.73   | 0.0    | 0.29                               | 0.0    | 2.42   | 0.0    | 0.0    | 0.0    | 0.01   |
| 13     | 0.92                       | 0.47   | 0.0    | 0.24   | 0.0    | 0.10                               | 0.0    | 1.93   | 0.0    | 0.0    | 0.0    | 0.0    |
| 14     | 2.00                       | 2.08   | 0.0    | 3.60   | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.01   |
| 15     | 1.15                       | 2.16   | 0.0    | 0.14   | 13.77  | 0.54                               | 0.0    | 16.50  | 0.0    | 4.12   | 0.0    | 2.06   |
| 16     | 0.72                       | 2.48   | 0.0    | 0.0    | 1.02   | 0.07                               | 0.0    | 3.15   | 0.0    | 0.01   | 0.02   | 0.05   |
| 17     | 0.60                       | 0.47   | 0.0    | 0.0    | 0.31   | 0.0                                | 0.0    | 0.11   | 0.0    | 0.0    | 0.04   | 0.0    |
| 18     | 0.79                       | 3.03   | 0.0    | 0.0    | 0.03   | 0.74                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19     | 0.49                       | 7.67   | 0.0    | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 16.13  | 0.0    |
| 20     | 0.86                       | 1.04   | 0.0    | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.31   | 0.0    |
| 21     | 0.57                       | 8.57   | 1.63   | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 1.08   | 0.0    | 0.0    | 0.0    |
| 22     | 0.47                       | 1.29   | 0.0    | 7.54   | 17.16  | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23     | 0.24                       | 0.29   | 0.0    | 0.49   | 1.01   | 0.0                                | 0.0    | 9.23   | 0.0    | 0.0    | 0.0    | 0.0    |
| 24     | 2.25                       | 0.29   | 0.0    | 0.03   | 0.38   | 0.0                                | 0.01   | 0.0    | 0.0    | 0.0    | 0.0    | 5.59   |
| 25     | 0.68                       | 0.29   | 0.0    | 0.0    | 0.38   | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.81   |
| 26     | 1.40                       | 0.29   | 0.0    | 0.0    | 0.47   | 0.0                                | 1.27   | 0.0    | 0.0    | 0.0    | 0.0    | 0.31   |
| 27     | 0.79                       | 0.29   | 0.0    | 0.0    | 0.09   | 0.0                                | 0.10   | 0.0    | 3.03   | 0.0    | 0.0    | 7.30   |
| 28     | 7.69                       | 0.29   | 0.0    | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.19   |
| 29     | 0.79                       | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.85   |
| 30     | 0.57                       | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.38   |
| 31     | 0.47                       | 0.0    | 0.0    | 0.0    | 0.52   | 0.0                                | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.29   |
| MEAN   | 9.1063                     | 1.3091 | 0.1278 | 0.5923 | 1.2219 | 1.2044                             | 0.3420 | 0.7775 | 0.3733 | 0.1332 | 0.5622 | 0.9069 |
| INCHES | 4.253                      | 0.552  | 0.060  | 0.268  | 0.571  | 0.544                              | 0.160  | 0.363  | 0.169  | 0.062  | 0.263  | 0.424  |
| STA AV | 0.874                      | 0.932  | 0.923  | 0.753  | 0.330  | 0.134                              | 0.247  | 0.203  | 0.278  | 0.100  | 0.579  | 0.748  |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.01506. STA AV based on 18 yr (1957-74) record period. Quality of records: Good, estimated to be within 10% of actual.

| 1974 SELECTED RUNOFF EVENT    |          |          | OXFORD, MISSISSIPPI |        |           | WATERSHED W-4C |        |        |          |
|-------------------------------|----------|----------|---------------------|--------|-----------|----------------|--------|--------|----------|
| ANTECEDENT CONDITIONS         |          |          | RAINFALL            |        |           | RUNOFF         |        |        |          |
| Date                          | Rainfall | Runoff   | Date                | Time   | Intensity | Acc.           | Date   | Time   | Acc.     |
| Mo-Day                        | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches)       | Mo-Day | of Day | (inches) |
| EVENT OF AUGUST 15 - 16, 1974 |          |          |                     |        |           |                |        |        |          |
| RG WTD003                     |          |          | RG WTD003           |        |           |                |        |        |          |
| 8-15                          | 0.0      | 0.0      | 8-15                | 1530   | 0.0       | 0.0            | 8-15   | 1620   | 0.0      |
|                               |          |          |                     | 1545   | 1.2800    | 0.32           |        | 1628   | 5.982    |
|                               |          |          |                     | 1600   | 2.2000    | 0.87           |        | 1630   | 6.531    |
|                               |          |          |                     | 1615   | 2.4400    | 1.48           |        | 1642   | 7.100    |
|                               |          |          |                     | 1630   | 0.9600    | 1.72           |        | 1652   | 39.228   |
|                               |          |          |                     | 1645   | 0.4400    | 1.83           |        | 1700   | 118.056  |
|                               |          |          |                     | 1700   | 0.2400    | 1.89           |        | 1710   | 196.695  |
|                               |          |          |                     |        |           |                |        | 1720   | 216.375  |
|                               |          |          |                     |        |           |                |        | 1724   | 244.480  |
|                               |          |          |                     |        |           |                |        | 1734   | 231.555  |
|                               |          |          |                     |        |           |                |        | 1744   | 191.875  |
|                               |          |          |                     |        |           |                |        | 1758   | 159.255  |
|                               |          |          |                     |        |           |                |        | 1820   | 110.056  |
|                               |          |          |                     |        |           |                |        | 1904   | 66.200   |
|                               |          |          |                     |        |           |                |        | 1950   | 26.936   |
|                               |          |          |                     |        |           |                |        | 2052   | 10.911   |
|                               |          |          |                     |        |           |                |        | 2206   | 6.531    |
|                               |          |          |                     |        |           |                |        | 2306   | 3.572    |
|                               |          |          |                     |        |           |                |        | 2400   | 2.400    |
|                               |          |          |                     |        |           |                | 8-16   | 210    | 1.435    |
|                               |          |          |                     |        |           |                |        | 356    | 0.471    |
|                               |          |          |                     |        |           |                |        | 1122   | 0.0      |
|                               |          |          |                     |        |           |                |        |        | 0.2534   |

WATERSHED CONDITIONS:  
About 13% of area in cultivation, primarily cotton, poor to fair cover; 40% in pasture and idle land with fair to good cover; 46% in woods, good cover; 1% bare gullies.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on pp. 62001-1 and 2.





OXFORD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 41 min. 55 sec. N.; Long. 89 deg. 30 min. 44 sec. W.

AREA: 1000.00 acres 1.56 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |                        |             |              |   |              |               |            |             |             |       |       |       | OXFORD, MISSISSIPPI WATERSHED W-5 |        |
|---|------------------------|-------------|--------------|---|--------------|---------------|------------|-------------|-------------|-------|-------|-------|-----------------------------------|--------|
|   |                        | Jan         | Feb          | Mar                                       | Apr          | May           | Jun        | Jul         | Aug         | Sep   | Oct   | Nov   | Dec                               | Annual |
| 1974  | P                      | 12.48       | 3.28         | 2.31                                      | 4.98         | 8.31          | 4.86       | 3.96        | 4.33        | 4.83  | 2.92  | 4.40  | 5.60                              | 62.26  |
|   | Q                      | 7.761       | 1.264        | 0.347                                     | 1.318        | 2.265         | 1.397      | 0.490       | 0.252       | 0.339 | 0.268 | 1.119 | 2.957                             | 19.778 |
| STA AV  | P                      | 4.55        | 4.48         | 5.09                                      | 5.18         | 4.59          | 3.38       | 3.95        | 3.80        | 4.38  | 2.52  | 4.84  | 5.44                              | 52.19  |
|   | Q                      | 1.847       | 1.865        | 1.947                                     | 1.649        | 0.885         | 0.456      | 0.445       | 0.368       | 0.449 | 0.194 | 1.120 | 1.865                             | 13.090 |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |                        |             |              |   |              |               |            |             |             |       |       |       |                                   |        |
|   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | Maximum Volume for Selected Time Interval | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date |       |       |       |                                   |        |
| 1974  | 11-19                  | 0.428       | 11-19        | 0.357                                     | 11-19        | 0.540         | 1-10       | 1.349       | 1-10        | 2.601 | 1-10  | 4.225 | 1-9                               | 5.407  |
|   |                        |             |              |   |              |               |            |             |             |       |       |       |                                   |        |
|   |                        |             |              |   |              |               |            |             |             |       |       |       |                                   |        |
| MAXIMUMS FOR PERIOD OF RECORD   |                        |             |              |   |              |               |            |             |             |       |       |       |                                   |        |
|   | 2-21                   | 1.626       | 2-21         | 1.152                                     | 3-4          | 1.630         | 3-4        | 2.120       | 11-6        | 2.807 | 1-10  | 4.225 | 1-9                               | 5.407  |
|   | 1971                   |             | 1971         |   | 1964         |               | 1964       |             | 1972        |       | 1974  |       | 1974                              |        |

NOTES: Watershed conditions: About 29% in cultivation (cotton, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 45% in pasture and idle land, good cover April to October with fair cover remainder of year; 25% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 33% of drainage area above small desilting and retention dams. Gaging station relocated upstream 10-1-69 reducing area from 1130 to 1000 acres. For map of watershed see Selected Runoff Events for Small Agricultural Watersheds in the United States, ABS, SWC, January 1960, p. 62.2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 19. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4W, Mississippi.

| 1974 DAILY PRECIPITATION (inches) |       |      |      |      |      |      |      |      |      |      |      |      | OXFORD, MISSISSIPPI WATERSHED W-5 |  |
|-----------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
| Day                               | Jan   | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                                   |  |
| 1                                 | 0.0   | 0.10 | 0.0  | 0.19 | 0.13 | 1.22 | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.08 |                                   |  |
| 2                                 | 0.10  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.0  |                                   |  |
| 3                                 | 1.40  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 4                                 | 0.0   | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  | 0.95 | 0.0  |                                   |  |
| 5                                 | 0.15  | 0.0  | 0.04 | 0.0  | 0.0  | 0.27 | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 6                                 | 0.49  | 0.12 | 0.31 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 |                                   |  |
| 7                                 | 0.22  | 0.0  | 0.0  | 0.06 | 0.0  | 0.55 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 |                                   |  |
| 8                                 | 0.19  | 0.0  | 0.0  | 0.44 | 0.07 | 0.77 | 0.06 | 0.0  | 0.83 | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 2.19  | 0.0  | 0.0  | 0.0  | 0.0  | 0.55 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 10                                | 4.76  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.14 | 0.0  | 0.0  | 0.32 | 0.0  |                                   |  |
| 11                                | 0.14  | 0.0  | 0.25 | 0.04 | 0.29 | 0.0  | 0.02 | 0.43 | 0.42 | 0.0  | 0.18 | 0.49 |                                   |  |
| 12                                | 0.01  | 0.0  | 0.0  | 1.76 | 0.0  | 0.0  | 0.01 | 1.36 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.55 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 14                                | 0.50  | 0.92 | 0.0  | 0.73 | 0.32 | 0.0  | 0.06 | 0.0  | 0.02 | 0.62 | 0.04 | 0.34 |                                   |  |
| 15                                | 0.05  | 0.28 | 0.0  | 0.0  | 2.23 | 0.52 | 0.0  | 0.41 | 0.0  | 1.67 | 0.0  | 0.47 |                                   |  |
| 16                                | 0.0   | 0.11 | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  | 0.64 | 0.0  |                                   |  |
| 17                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0   | 0.94 | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | 0.07 | 0.0  | 0.0  | 0.05 | 0.0  |                                   |  |
| 19                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.84 | 0.0  |                                   |  |
| 20                                | 0.39  | 0.0  | 0.69 | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0   | 0.81 | 0.54 | 0.07 | 0.03 | 0.0  | 0.0  | 0.0  | 0.93 | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.01  | 0.0  | 0.0  | 1.64 | 2.15 | 0.12 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.15  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.56 | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 |                                   |  |
| 24                                | 0.80  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 1.99 |                                   |  |
| 25                                | 0.0   | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.75 | 0.0  | 0.0  | 0.08 |                                   |  |
| 26                                | 0.27  | 0.0  | 0.0  | 0.0  | 0.36 | 0.0  | 0.91 | 0.03 | 0.02 | 0.0  | 0.0  | 0.16 |                                   |  |
| 27                                | 0.0   | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.92 | 0.0  | 0.0  | 0.85 |                                   |  |
| 28                                | 0.66  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.08 |                                   |  |
| 29                                | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.34 | 0.0  | 0.59 | 0.01 | 0.37 |                                   |  |
| 30                                | 0.0   | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.58 | 0.0  | 0.0  | 0.08 | 0.05 |                                   |  |
| 31                                | 0.0   | 0.0  | 0.0  | 0.0  | 1.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 |                                   |  |
| TOTAL                             | 12.48 | 3.28 | 2.31 | 4.98 | 8.31 | 4.86 | 3.96 | 4.33 | 4.83 | 2.92 | 4.40 | 5.60 |                                   |  |
| STA AV                            | 4.55  | 4.48 | 5.09 | 5.18 | 4.59 | 3.38 | 3.95 | 3.80 | 4.38 | 2.52 | 4.84 | 5.44 |                                   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 8 and 19. STA AV based on 18 yr (1957-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-5 |        |       |       |       |       |       |       |       |       |       |       |       |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day   | Jan    | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1   | 0.21   | 0.51  | 0.17  | 0.23  | 0.18  | 35.43 | 0.17  | 0.25  | 0.15  | 0.08  | 0.34  | 0.14  |
| 2   | 0.25   | 0.44  | 0.17  | 0.19  | 1.13  | 0.48  | 0.17  | 0.25  | 4.32  | 0.09  | 0.34  | 0.14  |
| 3   | 34.56  | 0.31  | 0.17  | 0.17  | 0.21  | 0.26  | 0.17  | 0.25  | 0.34  | 0.08  | 0.39  | 0.14  |
| 4   | 0.73   | 0.21  | 0.15  | 0.17  | 2.88  | 0.15  | 0.17  | 0.25  | 0.17  | 0.10  | 1.17  | 0.14  |
| 5   | 0.23   | 0.20  | 0.15  | 0.17  | 1.02  | 0.19  | 0.17  | 0.23  | 0.17  | 0.11  | 0.40  | 0.15  |
| 6   | 1.51   | 0.17  | 0.18  | 0.17  | 0.32  | 0.15  | 0.17  | 0.17  | 0.17  | 0.11  | 0.08  | 0.21  |
| 7   | 0.62   | 0.21  | 0.14  | 0.23  | 0.23  | 0.22  | 0.17  | 0.11  | 0.17  | 0.11  | 0.07  | 0.20  |
| 8   | 0.19   | 0.19  | 0.13  | 0.35  | 0.21  | 6.92  | 0.17  | 0.08  | 0.17  | 0.11  | 0.07  | 0.14  |
| 9   | 65.76  | 0.15  | 0.14  | 0.21  | 0.21  | 0.23  | 0.17  | 0.09  | 0.17  | 0.11  | 0.06  | 0.12  |
| 10  | 151.18 | 0.14  | 0.14  | 0.21  | 0.17  | 10.38 | 0.17  | 0.08  | 0.17  | 0.11  | 0.07  | 0.14  |
| 11  | 37.54  | 0.14  | 0.15  | 0.23  | 0.14  | 0.14  | 0.17  | 0.10  | 0.17  | 0.11  | 0.07  | 3.44  |
| 12  | 0.29   | 0.14  | 0.17  | 18.43 | 0.14  | 0.14  | 0.17  | 1.38  | 0.17  | 0.11  | 0.06  | 1.01  |
| 13  | 0.30   | 0.15  | 0.15  | 0.69  | 0.17  | 0.14  | 0.17  | 0.92  | 0.17  | 0.12  | 0.07  | 0.21  |
| 14  | 4.54   | 1.24  | 0.14  | 8.60  | 0.0   | 0.14  | 0.17  | 0.12  | 0.14  | 0.32  | 0.07  | 0.27  |
| 15  | 0.33   | 1.11  | 0.14  | 1.19  | 29.20 | 0.14  | 0.19  | 2.99  | 0.11  | 7.01  | 0.08  | 16.25 |
| 16  | 0.16   | 5.55  | 0.14  | 0.19  | 2.93  | 0.14  | 0.34  | 0.61  | 0.11  | 0.44  | 0.08  | 1.03  |
| 17  | 0.11   | 0.42  | 0.14  | 0.17  | 0.65  | 0.13  | 0.25  | 0.36  | 0.11  | 0.13  | 0.09  | 0.23  |
| 18  | 0.11   | 7.48  | 0.14  | 0.17  | 0.54  | 0.57  | 0.25  | 0.21  | 0.11  | 0.11  | 0.08  | 0.21  |
| 19  | 0.11   | 11.88 | 0.13  | 0.17  | 0.50  | 0.48  | 0.25  | 0.21  | 0.10  | 0.10  | 37.48 | 0.21  |
| 20  | 0.11   | 0.18  | 0.22  | 0.17  | 0.48  | 0.37  | 0.25  | 0.21  | 0.11  | 0.08  | 2.01  | 0.21  |
| 21  | 0.11   | 17.90 | 6.52  | 0.17  | 0.48  | 0.27  | 0.25  | 0.21  | 0.30  | 0.08  | 0.73  | 0.21  |
| 22  | 0.11   | 3.05  | 0.79  | 19.26 | 37.25 | 0.23  | 0.21  | 0.21  | 0.14  | 0.08  | 1.01  | 0.21  |
| 23  | 0.25   | 0.36  | 0.65  | 1.43  | 3.78  | 0.19  | 13.19 | 0.21  | 0.14  | 0.09  | 0.89  | 0.21  |
| 24  | 9.23   | 0.23  | 0.57  | 0.48  | 2.35  | 0.17  | 0.93  | 0.19  | 0.14  | 0.08  | 0.49  | 29.62 |
| 25  | 0.15   | 0.25  | 0.58  | 0.39  | 2.35  | 0.17  | 0.50  | 0.15  | 0.14  | 0.09  | 0.13  | 23.77 |
| 26  | 1.26   | 0.19  | 0.54  | 0.34  | 2.35  | 0.17  | 0.32  | 0.12  | 0.12  | 0.13  | 0.14  | 1.79  |
| 27  | 0.13   | 0.14  | 0.44  | 0.34  | 2.35  | 0.17  | 0.27  | 0.11  | 5.61  | 0.17  | 0.14  | 25.41 |
| 28  | 13.56  | 0.15  | 0.39  | 0.37  | 1.40  | 0.17  | 0.25  | 0.11  | 0.21  | 0.19  | 0.14  | 4.76  |
| 29  | 1.23   |       | 0.39  | 0.30  | 0.44  | 0.17  | 0.25  | 0.12  | 0.06  | 0.23  | 0.14  | 10.39 |
| 30  | 0.61   |       | 0.34  | 0.21  | 0.44  | 0.17  | 0.25  | 0.14  | 0.07  | 0.27  | 0.13  | 2.19  |
| 31  | 0.57   |       | 0.28  |       | 0.65  |       | 0.25  | 0.14  |       | 0.32  |       | 1.07  |
| MEAN  | 10.518 | 1.896 | 0.470 | 1.847 | 3.070 | 1.957 | 0.665 | 0.342 | 0.475 | 0.363 | 1.567 | 4.008 |
| INCRS   | 7.761  | 1.264 | 0.347 | 1.318 | 2.265 | 1.397 | 0.490 | 0.252 | 0.339 | 0.268 | 1.119 | 2.957 |
| STA AV  | 1.847  | 1.865 | 1.947 | 1.649 | 0.885 | 0.456 | 0.445 | 0.368 | 0.449 | 0.194 | 1.120 | 1.865 |

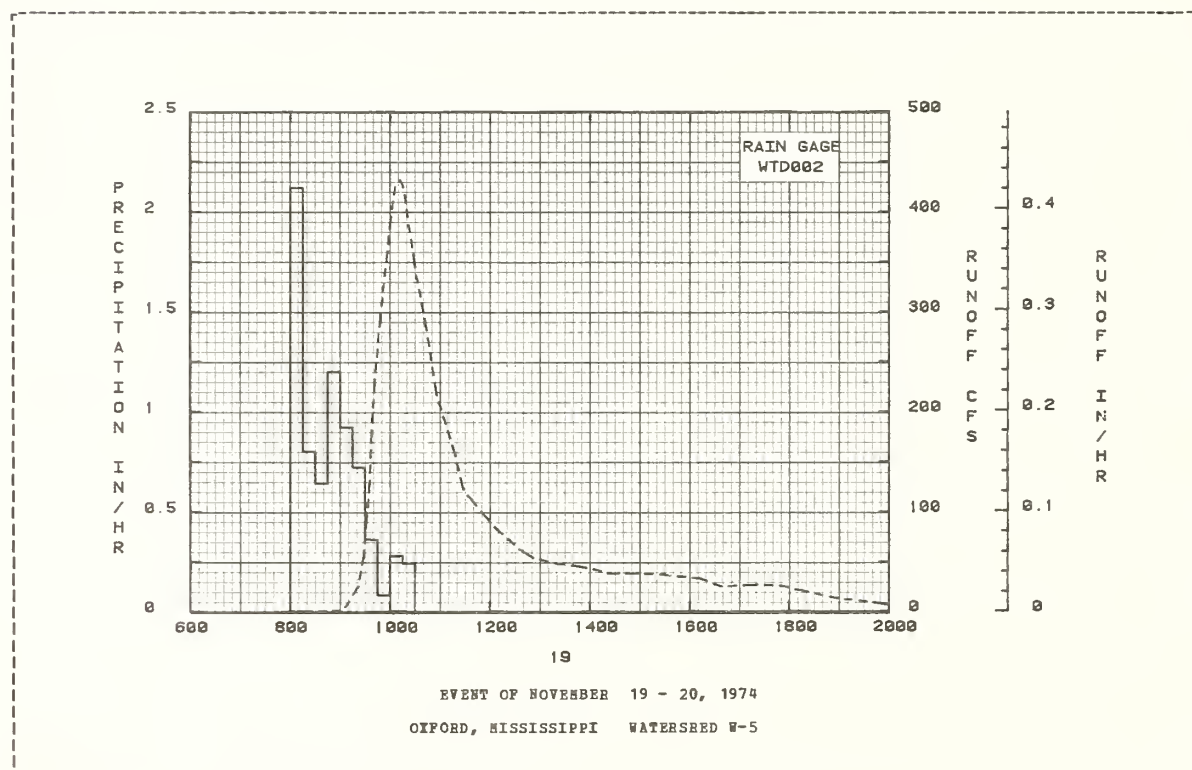
NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.0237978. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

| 1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-5   |          |          |          |        |           |          |        |        |         |          |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |         |          |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF NOVEMBER 19 - 20, 1974  |          |          |          |        |           |          |        |        |         |          |
| RG WTD002  |          |          |          |        |           |          |        |        |         |          |
| 11-19  | 0.0      | 0.001    | 11-19    | 800    | 0.0       | 0.0      | 11-19  | 814    | 0.086   | 0.0      |
|  |          |          |          | 815    | 2.1200    | 0.53     |        | 826    | 0.651   | 0.0001   |
|  |          |          |          | 830    | 0.8000    | 0.73     |        | 834    | 0.739   | 0.0002   |
|  |          |          |          | 845    | 0.6400    | 0.89     |        | 844    | 0.840   | 0.0003   |
|  |          |          |          | 900    | 1.2000    | 1.19     |        | 852    | 1.074   | 0.0005   |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |         |          |
| About 23% of area in cultivation, primarily cotton, ryegrass and corn, poor to fair cover; 51% in pasture and idle land with fair to good cover; 25% in woods, good cover; 1% in bare gullies. |          |          |          |        |           |          |        |        |         |          |
|  |          |          |          | 915    | 0.9200    | 1.42     |        | 900    | 1.494   | 0.0006   |
|  |          |          |          | 930    | 0.7200    | 1.60     |        | 906    | 4.600   | 0.0009   |
|  |          |          |          | 945    | 0.3600    | 1.69     |        | 922    | 25.300  | 0.0049   |
|  |          |          |          | 1000   | 0.0800    | 1.71     |        | 928    | 54.595  | 0.0089   |
|  |          |          |          | 1015   | 0.2800    | 1.78     |        | 932    | 90.000  | 0.0136   |
|  |          |          |          | 1030   | 0.2400    | 1.84     |        | 936    | 131.995 | 0.0210   |
|  |          |          |          |        |           |          |        | 938    | 182.000 | 0.0264   |
|  |          |          |          |        |           |          |        | 942    | 232.736 | 0.0401   |
|  |          |          |          |        |           |          |        | 948    | 291.398 | 0.0655   |
|  |          |          |          |        |           |          |        | 956    | 353.677 | 0.1079   |
|  |          |          |          |        |           |          |        | 1000   | 388.000 | 0.1338   |
|  |          |          |          |        |           |          |        | 1006   | 425.500 | 0.1732   |
|  |          |          |          |        |           |          |        | 1012   | 431.500 | 0.2163   |
|  |          |          |          |        |           |          |        | 1016   | 424.000 | 0.2445   |
|  |          |          |          |        |           |          |        | 1030   | 344.186 | 0.3338   |
|  |          |          |          |        |           |          |        | 1044   | 280.600 | 0.4052   |
|  |          |          |          |        |           |          |        | 1056   | 216.226 | 0.4542   |
|  |          |          |          |        |           |          |        | 1116   | 163.000 | 0.5174   |
|  |          |          |          |        |           |          |        | 1128   | 122.055 | 0.5456   |
|  |          |          |          |        |           |          |        | 1138   | 111.526 | 0.5650   |
|  |          |          |          |        |           |          |        | 1154   | 95.600  | 0.5923   |
|  |          |          |          |        |           |          |        | 1208   | 82.000  | 0.6129   |
|  |          |          |          |        |           |          |        | 1222   | 72.536  | 0.6306   |
|  |          |          |          |        |           |          |        | 1238   | 60.659  | 0.6484   |
|  |          |          |          |        |           |          |        | 1252   | 53.400  | 0.6614   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62002-1 and 2.

| 1974 SELECTED RUNOFF EVENT                  |          |          | OXFORD, MISSISSIPPI |        |           | WATERSHED W-5 |        |        |        |
|---|----------|----------|---------------------|--------|-----------|---------------|--------|--------|--------|
| ANTECEDENT CONDITIONS                       |          |          | RAINFALL            |        |           | RUNOFF        |        |        |        |
| Date  | Rainfall | Runoff   | Date                | Time   | Intensity | Acc.          | Date   | Time   | Rate   |
| Mo-Day                                      | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches)      | Mo-Day | of Day | (cfs)  |
| EVENT OF NOVEMBER 19 - 20, 1974 (CONTINUED) |          |          |                     |        |           |               |        |        |        |
|   |          |          |                     |        |           |               | 11-19  | 1322   | 47.400 |
|   |          |          |                     |        |           |               |        | 1330   | 47.400 |
|   |          |          |                     |        |           |               |        | 1356   | 43.200 |
|   |          |          |                     |        |           |               |        | 1426   | 37.763 |
|   |          |          |                     |        |           |               |        | 1458   | 37.763 |
|   |          |          |                     |        |           |               |        | 1528   | 36.580 |
|   |          |          |                     |        |           |               |        | 1612   | 32.654 |
|   |          |          |                     |        |           |               |        | 1638   | 24.784 |
|   |          |          |                     |        |           |               |        | 1722   | 26.843 |
|   |          |          |                     |        |           |               |        | 1750   | 25.300 |
|   |          |          |                     |        |           |               |        | 1814   | 20.693 |
|   |          |          |                     |        |           |               |        | 1858   | 12.795 |
|   |          |          |                     |        |           |               |        | 1944   | 8.422  |
|   |          |          |                     |        |           |               |        | 2042   | 5.909  |
|   |          |          |                     |        |           |               |        | 2158   | 5.371  |
|   |          |          |                     |        |           |               |        | 2328   | 4.103  |
|   |          |          |                     |        |           |               |        | 2400   | 3.625  |
|   |          |          |                     |        |           |               | 11-20  | 2400   | 0.390  |
|   |          |          |                     |        |           |               |        |        | 0.9391 |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62002-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 45 min. 11 sec. N.; Long. 89 deg. 34 min. 54 sec. W.

AREA: 32100.00 acres 50.20 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                             |                  |                   |   |                    |                 |           |            |       |       |       |                  | OXFORD, MISSISSIPPI WATERSHED W-17 |  |
|---|---|-----------------------------|------------------|-------------------|---|--------------------|-----------------|-----------|------------|-------|-------|-------|------------------|------------------------------------|--|
|   |   | Jan                         | Feb              | Mar               | Apr                                       | May                | Jun             | Jul       | Aug        | Sep   | Oct   | Nov   | Dec              | Annual                             |  |
| 1974  | P | 11.48                       | 3.09             | 2.62              | 4.20                                      | 7.85               | 4.80            | 4.75      | 5.74       | 4.48  | 2.89  | 4.43  | 5.65             | 61.98                              |  |
|   | Q | 4.949                       | 0.897            | 0.550             | 0.656                                     | 1.253              | 1.098           | 0.663     | 0.935      | 0.392 | 0.414 | 0.999 | 1.404            | 14.211                             |  |
| STA AV  | P | 4.49                        | 4.50             | 5.02              | 5.14                                      | 4.65               | 3.35            | 4.29      | 3.86       | 4.11  | 2.48  | 4.79  | 5.44             | 52.12                              |  |
|   | Q | 1.368                       | 1.393            | 1.577             | 1.318                                     | 0.885              | 0.477           | 0.638     | 0.536      | 0.457 | 0.301 | 0.882 | 1.317            | 11.148                             |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                             |                  |                   |   |                    |                 |           |            |       |       |       |                  |                                    |  |
|   |   | Maximum Discharge Date Rate | 1 Hour Date Vol. | 2 Hours Date Vol. | Maximum Volume for Selected Time Interval |                    |                 |           |            |       |       |       | 2 Days Date Vol. | 8 Days Date Vol.                   |  |
|   |   |                             |                  |                   | 6 Hours Date Vol.                         | 12 Hours Date Vol. | 1 Day Date Vol. |           |            |       |       |       |                  |                                    |  |
| 1974  |   | 1-10 0.170                  | 1-10 0.169       | 1-10 0.335        | 1-10 0.932                                | 1-10 1.800         | 1-10 2.840      | 1-9 3.365 | 1-3 3.935  |       |       |       |                  |                                    |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                             |                  |                   |   |                    |                 |           |            |       |       |       |                  |                                    |  |
|   |   | 7-3 0.265                   | 7-3 0.265        | 7-3 0.529         | 7-3 1.553                                 | 7-3 2.413          | 1-10 2.840      | 1-9 3.365 | 3-24 4.680 |       |       |       |                  |                                    |  |
|   |   | 1972                        | 1972             | 1972              | 1972                                      | 1972               | 1974            | 1974      | 1965       |       |       |       |                  |                                    |  |

NOTES: Watershed conditions: About 18% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% in bare gullies; 5% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1972. About 19% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 13 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

| 1974 DAILY PRECIPITATION (inches) |     |       |       |       |       |      |      |       |       |       |      |      |      | OXFORD, MISSISSIPPI WATERSHED W-17 |  |
|-----------------------------------|-----|-------|-------|-------|-------|------|------|-------|-------|-------|------|------|------|------------------------------------|--|
|                                   | Day | Jan   | Feb   | Mar   | Apr   | May  | Jun  | Jul   | Aug   | Sep   | Oct  | Nov  | Dec  |                                    |  |
|                                   | 1   | 0.9   | 0.06  | 0.0   | 0.11  | 0.24 | 1.00 | 0.0   | 0.0   | 0.11  | 0.0  | 0.0  | 0.04 |                                    |  |
|                                   | 2   | 0.11  | 0.0   | 0.0   | 0.0   | 0.57 | 0.0  | 0.0   | 0.0   | 0.53  | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 3   | 1.19  | 0.0   | 0.0   | 0.0   | 0.19 | 0.0  | 0.0   | 0.11  | 0.0   | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.51 | 0.0  | 0.16  | 0.0   | 0.0   | 0.0  | 0.81 | 0.0  |                                    |  |
|                                   | 5   | 0.16  | 0.0   | 0.01  | 0.0   | 0.0  | 0.28 | 0.03  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 6   | 0.50  | 0.20  | 0.71  | 0.0   | 0.0  | 0.03 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.23 |                                    |  |
|                                   | 7   | 0.22  | 0.0   | 0.0   | 0.04  | 0.0  | 0.47 | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0  | 0.15 |                                    |  |
|                                   | 8   | 0.23  | 0.0   | 0.0   | 0.30  | 0.08 | 1.05 | 0.36  | 0.0   | 0.97  | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 9   | 1.54  | 0.0   | 0.0   | 0.0 T | 0.0  | 0.56 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.6  |                                    |  |
|                                   | 10  | 4.50  | 0.0   | 0.0   | 0.0   | 0.0  | 0.18 | 0.0   | 0.21  | 0.6   | 0.6  | 0.34 | 0.0  |                                    |  |
|                                   | 11  | 0.07  | 0.0   | 0.36  | 0.02  | 0.28 | 0.0  | 0.17  | 0.36  | 0.34  | 0.0  | 0.20 | 0.53 |                                    |  |
|                                   | 12  | 0.0 T | 0.0   | 0.0   | 1.85  | 0.0  | 0.0  | 0.0 T | 1.81  | 0.07  | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 13  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.93  | 0.0 T | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 14  | 0.50  | 1.03  | 0.0   | 0.26  | 0.29 | 0.0  | 0.04  | 0.0   | 0.06  | 0.64 | 0.02 | 0.36 |                                    |  |
|                                   | 15  | 0.04  | 0.23  | 0.0 T | 0.0   | 2.17 | 0.60 | 0.11  | 0.62  | 0.0   | 1.66 | 0.0  | 0.43 |                                    |  |
|                                   | 16  | 0.0   | 0.13  | 0.16  | 0.0   | 0.0  | 0.0  | 0.0   | 0.28  | 0.0   | 0.0  | 0.62 | 0.0  |                                    |  |
|                                   | 17  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0  | 0.0   | 0.01  | 0.0   | 0.0  | 0.08 | 0.0  |                                    |  |
|                                   | 18  | 0.0   | 0.82  | 0.0   | 0.0 T | 0.0  | 0.53 | 0.0   | 0.07  | 0.0   | 0.0  | 0.07 | 0.0  |                                    |  |
|                                   | 19  | 0.0   | 0.0 T | 0.02  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 1.86 | 0.0  |                                    |  |
|                                   | 20  | 0.43  | 0.0   | 0.56  | 0.0   | 0.02 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 21  | 0.0   | 0.62  | 0.56  | 0.04  | 0.02 | 0.0  | 0.0   | 0.0   | 0.84  | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 22  | 0.01  | 0.0   | 0.0   | 1.52  | 2.07 | 0.10 | 0.07  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |                                    |  |
|                                   | 23  | 0.13  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 2.63  | 0.0   | 0.0   | 0.0  | 0.0  | 0.11 |                                    |  |
|                                   | 24  | 0.62  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.01  | 0.0   | 0.0   | 0.0  | 0.32 | 2.14 |                                    |  |
|                                   | 25  | 0.22  | 0.0   | 0.06  | 0.0   | 0.0  | 0.0  | 0.0 T | 0.0   | 0.78  | 0.0  | 0.0  | 0.08 |                                    |  |
|                                   | 26  | 0.30  | 0.0   | 0.0   | 0.0   | 0.33 | 0.0  | 1.17  | 0.09  | 0.02  | 0.0  | 0.0  | 0.15 |                                    |  |
|                                   | 27  | 0.0   | 0.0   | 0.03  | 0.0   | 0.0  | 0.0  | 0.0   | 0.26  | 0.76  | 0.0  | 0.0  | 0.81 |                                    |  |
|                                   | 28  | 0.71  | 0.0   | 0.15  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.09 | 0.0  | 0.09 |                                    |  |
|                                   | 29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.55  | 0.0   | 0.50 | 0.04 | 0.33 |                                    |  |
|                                   | 30  | 0.0   | 0.0   | 0.06  | 0.0   | 0.0  | 0.0  | 0.0   | 0.44  | 0.0   | 0.0  | 0.07 | 0.06 |                                    |  |
|                                   | 31  | 0.0   |       | 0.0   |       | 1.08 |      | 0.0   | 0.0   |       | 0.0  |      | 0.14 |                                    |  |
| TOTAL                             |     | 11.48 | 3.09  | 2.62  | 4.20  | 7.85 | 4.80 | 4.75  | 5.74  | 4.48  | 2.89 | 4.43 | 5.65 |                                    |  |
| STA AV                            |     | 4.49  | 4.50  | 5.02  | 5.14  | 4.65 | 3.35 | 4.29  | 3.86  | 4.11  | 2.48 | 4.79 | 5.44 |                                    |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22 and 31. STA AV based on 18 yr (1957-74) record period.

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.

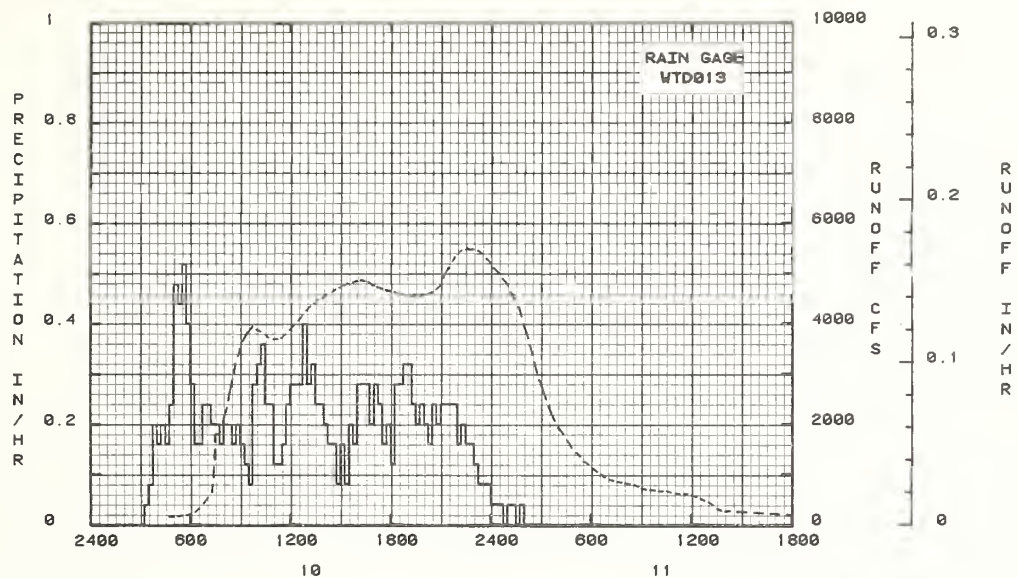


| 1974 SELECTED RUNOFF EVENT                 |                      |                    | OXFORD, MISSISSIPPI |                |                      | WATERSHED W-17   |                |                |               |                  |
|--|----------------------|--------------------|---------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL            |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF JANUARY 10 - 12, 1974 (CONTINUED) |                      |                    |                     |                |                      |                  |                |                |               |                  |
| 1-10                                       | 915                  | 0.1600             | 1.37                | 1-10           | 1042                 | 3717.997         | 0.3460         |                |               |                  |
|  | 930                  | 0.1200             | 1.40                | 1100           | 3693.997             | 0.3803           |                |                |               |                  |
|  | 945                  | 0.0800             | 1.42                | 1114           | 3693.997             | 0.4069           |                |                |               |                  |
|  | 1000                 | 0.2800             | 1.49                | 1128           | 3723.997             | 0.4337           |                |                |               |                  |
|  | 1015                 | 0.3200             | 1.57                | 1142           | 3789.997             | 0.4608           |                |                |               |                  |
|  | 1030                 | 0.3600             | 1.66                | 1158           | 3879.999             | 0.4924           |                |                |               |                  |
|  | 1045                 | 0.2400             | 1.72                | 1212           | 3977.497             | 0.5207           |                |                |               |                  |
|  | 1100                 | 0.2400             | 1.78                | 1228           | 4068.496             | 0.5538           |                |                |               |                  |
|  | 1115                 | 0.1200             | 1.81                | 1242           | 4172.484             | 0.5835           |                |                |               |                  |
|  | 1130                 | 0.1203             | 1.84                | 1256           | 4269.984             | 0.6139           |                |                |               |                  |
|  | 1145                 | 0.1600             | 1.88                | 1312           | 4355.617             | 0.6495           |                |                |               |                  |
|  | 1200                 | 0.2400             | 1.94                | 1326           | 4411.984             | 0.6811           |                |                |               |                  |
|  | 1215                 | 0.2800             | 2.01                | 1340           | 4481.984             | 0.7131           |                |                |               |                  |
|  | 1230                 | 0.2800             | 2.08                | 1356           | 4530.984             | 0.7503           |                |                |               |                  |
|  | 1245                 | 0.2800             | 2.15                | 1410           | 4579.980             | 0.7831           |                |                |               |                  |
|  | 1300                 | 0.4000             | 2.25                | 1428           | 4628.984             | 0.8258           |                |                |               |                  |
|  | 1315                 | 0.2800             | 2.32                | 1442           | 4684.984             | 0.8594           |                |                |               |                  |
|  | 1330                 | 0.3200             | 2.40                | 1456           | 4726.984             | 0.8933           |                |                |               |                  |
|  | 1345                 | 0.2400             | 2.46                | 1504           | 4747.984             | 0.9128           |                |                |               |                  |
|  | 1400                 | 0.2400             | 2.52                | 1512           | 4768.984             | 0.9324           |                |                |               |                  |
|  | 1415                 | 0.2000             | 2.57                | 1526           | 4803.984             | 0.9669           |                |                |               |                  |
|  | 1430                 | 0.1600             | 2.61                | 1544           | 4824.984             | 1.0115           |                |                |               |                  |
|  | 1445                 | 0.1600             | 2.65                | 1558           | 4852.984             | 1.0464           |                |                |               |                  |
|  | 1500                 | 0.0800             | 2.67                | 1612           | 4866.984             | 1.0814           |                |                |               |                  |
|  | 1515                 | 0.1600             | 2.71                | 1626           | 4845.984             | 1.1164           |                |                |               |                  |
|  | 1530                 | 0.0800             | 2.73                | 1640           | 4824.984             | 1.1513           |                |                |               |                  |
|  | 1545                 | 0.2000             | 2.78                | 1656           | 4761.984             | 1.1908           |                |                |               |                  |
|  | 1600                 | 0.1600             | 2.82                | 1712           | 4726.984             | 1.2299           |                |                |               |                  |
|  | 1615                 | 0.2800             | 2.89                | 1726           | 4698.984             | 1.2639           |                |                |               |                  |
|  | 1630                 | 0.2805             | 2.96                | 1742           | 4670.984             | 1.3025           |                |                |               |                  |
|  | 1645                 | 0.2800             | 3.03                | 1758           | 4642.984             | 1.3408           |                |                |               |                  |
|  | 1700                 | 0.2000             | 3.08                | 1812           | 4621.984             | 1.3742           |                |                |               |                  |
|  | 1715                 | 0.2800             | 3.15                | 1828           | 4600.984             | 1.4122           |                |                |               |                  |
|  | 1730                 | 0.2400             | 3.21                | 1840           | 4593.984             | 1.4406           |                |                |               |                  |
|  | 1745                 | 0.1600             | 3.25                | 1856           | 4565.984             | 1.4784           |                |                |               |                  |
|  | 1800                 | 0.2000             | 3.30                | 1912           | 4558.984             | 1.5159           |                |                |               |                  |
|  | 1815                 | 0.1200             | 3.33                | 1926           | 4551.984             | 1.5488           |                |                |               |                  |
|  | 1830                 | 0.2800             | 3.40                | 1944           | 4544.984             | 1.5909           |                |                |               |                  |
|  | 1845                 | 0.2800             | 3.47                | 1958           | 4572.984             | 1.6238           |                |                |               |                  |
|  | 1900                 | 0.3200             | 3.55                | 2010           | 4593.984             | 1.6521           |                |                |               |                  |
|  | 1915                 | 0.3200             | 3.63                | 2028           | 4628.984             | 1.6949           |                |                |               |                  |
|  | 1930                 | 0.2400             | 3.69                | 2042           | 4684.984             | 1.7284           |                |                |               |                  |
|  | 1945                 | 0.2000             | 3.74                | 2100           | 4775.984             | 1.7723           |                |                |               |                  |
|  | 2000                 | 0.2400             | 3.80                | 2112           | 4964.984             | 1.8024           |                |                |               |                  |
|  | 2015                 | 0.2000             | 3.85                | 2128           | 5118.984             | 1.8439           |                |                |               |                  |
|  | 2030                 | 0.1600             | 3.89                | 2142           | 5244.984             | 1.8813           |                |                |               |                  |
|  | 2045                 | 0.2400             | 3.95                | 2150           | 5328.984             | 1.9031           |                |                |               |                  |
|  | 2100                 | 0.2000             | 4.00                | 2158           | 5412.984             | 1.9252           |                |                |               |                  |
|  | 2115                 | 0.2394             | 4.06                | 2214           | 5461.984             | 1.9700           |                |                |               |                  |
|  | 2130                 | 0.2400             | 4.12                | 2230           | 5482.984             | 2.0151           |                |                |               |                  |
|  | 2145                 | 0.2400             | 4.18                | 2236           | 5510.984             | 2.0320           |                |                |               |                  |
|  | 2200                 | 0.2400             | 4.24                | 2242           | 5482.984             | 2.0490           |                |                |               |                  |
|  | 2215                 | 0.1600             | 4.28                | 2258           | 5475.984             | 2.0942           |                |                |               |                  |
|  | 2230                 | 0.2000             | 4.33                | 2314           | 5447.984             | 2.1392           |                |                |               |                  |
|  | 2245                 | 0.1600             | 4.37                | 2328           | 5384.984             | 2.1782           |                |                |               |                  |
|  | 2300                 | 0.1600             | 4.41                | 2344           | 5293.984             | 2.2222           |                |                |               |                  |
|  | 2315                 | 0.1200             | 4.44                | 2400           | 5188.984             | 2.2654           |                |                |               |                  |
|  | 2330                 | 0.0800             | 4.46                | 12             | 5097.984             | 2.2972           |                |                |               |                  |
|  | 2345                 | 0.0800             | 4.48                | 28             | 5006.984             | 2.3388           |                |                |               |                  |
|  | 2400                 | 0.0800             | 4.50                | 42             | 4887.984             | 2.3745           |                |                |               |                  |
| 1-11                                       | 15                   | 0.0400             | 4.51                | 100            | 4768.984             | 2.4192           |                |                |               |                  |
|  | 30                   | 0.0400             | 4.52                | 112            | 4607.984             | 2.4482           |                |                |               |                  |
|  | 45                   | 0.0400             | 4.53                | 128            | 4474.984             | 2.4856           |                |                |               |                  |
|  | 100                  | 0.0                | 4.53                | 144            | 4282.906             | 2.5217           |                |                |               |                  |
|  | 115                  | 0.0400             | 4.54                | 158            | 3970.999             | 2.5514           |                |                |               |                  |
|  | 130                  | 0.0400             | 4.55                | 214            | 3699.997             | 2.5830           |                |                |               |                  |
|  | 145                  | 0.0                | 4.55                | 230            | 3375.999             | 2.6122           |                |                |               |                  |
|  | 200                  | 0.0400             | 4.56                | 246            | 3021.998             | 2.6385           |                |                |               |                  |
|  | 215                  | 0.0                | 4.56                | 302            | 2745.999             | 2.6623           |                |                |               |                  |
|  | 230                  | 0.0                | 4.56                | 318            | 2488.677             | 2.6839           |                |                |               |                  |
|  | 245                  | 0.0                | 4.56                | 334            | 2268.999             | 2.7035           |                |                |               |                  |
|  | 530                  | 0.0                | 4.56                | 350            | 2059.999             | 2.7213           |                |                |               |                  |
|  | 545                  | 0.0                | 4.56                | 404            | 1911.500             | 2.7356           |                |                |               |                  |
|  | 600                  | 0.0010             | 4.56                | 420            | 1796.000             | 2.7509           |                |                |               |                  |
|  |                      |                    |                     | 438            | 1641.638             | 2.7668           |                |                |               |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.

| 1974 SELECTED RUNOFF EVENT                 |          |          | OXFORD, MISSISSIPPI |        |           | WATERSHED W-17 |        |          |
|--|----------|----------|---------------------|--------|-----------|----------------|--------|----------|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL            |        |           | RUNOFF         |        |          |
| Date                                       | Rainfall | Runoff   | Date                | Time   | Intensity | Acc.           | Date   | Time     |
| Mo-Day                                     | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches)       | Mo-Day | of Day   |
|  |          |          |                     |        |           |                |        | Rate     |
|  |          |          |                     |        |           |                |        | (cfs)    |
|  |          |          |                     |        |           |                |        | Acc.     |
|  |          |          |                     |        |           |                |        | (inches) |
| EVENT OF JANUARY 10 - 12, 1974 (CONTINUED) |          |          |                     |        |           |                |        |          |
|  |          |          |                     | 1-11   |           |                | 450    | 1519.999 |
|  |          |          |                     |        |           |                | 508    | 1420.000 |
|  |          |          |                     |        |           |                | 522    | 1345.000 |
|  |          |          |                     |        |           |                | 534    | 1255.000 |
|  |          |          |                     |        |           |                | 550    | 1190.000 |
|  |          |          |                     |        |           |                | 604    | 1114.978 |
|  |          |          |                     |        |           |                | 622    | 1038.343 |
|  |          |          |                     |        |           |                | 638    | 989.000  |
|  |          |          |                     |        |           |                | 650    | 930.500  |
|  |          |          |                     |        |           |                | 706    | 894.499  |
|  |          |          |                     |        |           |                | 720    | 863.000  |
|  |          |          |                     |        |           |                | 734    | 840.500  |
|  |          |          |                     |        |           |                | 750    | 831.500  |
|  |          |          |                     |        |           |                | 804    | 813.500  |
|  |          |          |                     |        |           |                | 820    | 804.500  |
|  |          |          |                     |        |           |                | 836    | 782.000  |
|  |          |          |                     |        |           |                | 850    | 750.500  |
|  |          |          |                     |        |           |                | 904    | 714.500  |
|  |          |          |                     |        |           |                | 918    | 687.500  |
|  |          |          |                     |        |           |                | 934    | 678.500  |
|  |          |          |                     |        |           |                | 950    | 669.500  |
|  |          |          |                     |        |           |                | 1004   | 665.000  |
|  |          |          |                     |        |           |                | 1018   | 660.478  |
|  |          |          |                     |        |           |                | 1034   | 655.918  |
|  |          |          |                     |        |           |                | 1048   | 633.133  |
|  |          |          |                     |        |           |                | 1104   | 611.678  |
|  |          |          |                     |        |           |                | 1118   | 595.760  |
|  |          |          |                     |        |           |                | 1134   | 595.760  |
|  |          |          |                     |        |           |                | 1148   | 595.760  |
|  |          |          |                     |        |           |                | 1202   | 580.000  |
|  |          |          |                     |        |           |                | 1220   | 544.000  |
|  |          |          |                     |        |           |                | 1234   | 512.000  |
|  |          |          |                     |        |           |                | 1248   | 468.000  |
|  |          |          |                     |        |           |                | 1302   | 436.000  |
|  |          |          |                     |        |           |                | 1318   | 383.000  |
|  |          |          |                     |        |           |                | 1334   | 313.918  |
|  |          |          |                     |        |           |                | 1348   | 265.000  |
|  |          |          |                     |        |           |                | 1402   | 262.500  |
|  |          |          |                     |        |           |                | 1418   | 255.000  |
|  |          |          |                     |        |           |                | 1448   | 250.000  |
|  |          |          |                     |        |           |                | 1518   | 240.000  |
|  |          |          |                     |        |           |                | 1548   | 229.760  |
|  |          |          |                     |        |           |                | 1618   | 217.298  |
|  |          |          |                     |        |           |                | 1646   | 208.633  |
|  |          |          |                     |        |           |                | 1716   | 196.978  |
|  |          |          |                     |        |           |                | 1746   | 189.000  |
|  |          |          |                     |        |           |                | 1818   | 177.000  |
|  |          |          |                     |        |           |                | 1850   | 171.000  |
|  |          |          |                     |        |           |                | 1918   | 165.000  |
|  |          |          |                     |        |           |                | 1948   | 157.000  |
|  |          |          |                     |        |           |                | 2018   | 155.000  |
|  |          |          |                     |        |           |                | 2048   | 142.856  |
|  |          |          |                     |        |           |                | 2232   | 127.608  |
|  |          |          |                     |        |           |                | 2400   | 118.751  |
|  |          |          |                     | 1-12   |           |                | 128    | 108.313  |
|  |          |          |                     |        |           |                | 258    | 103.256  |
|  |          |          |                     |        |           |                | 600    | 69.437   |
|  |          |          |                     |        |           |                | 900    | 80.406   |
|  |          |          |                     |        |           |                | 1156   | 70.000   |
|  |          |          |                     |        |           |                | 1756   | 60.352   |
|  |          |          |                     |        |           |                | 2400   | 49.453   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.



EVENT OF JANUARY 10 - 12, 1974  
 OXFORD, MISSISSIPPI WATERSHED W-17

OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on County road; Cnfawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 56 sec. N.; Long. 89 deg. 37 min. 30 sec. W.

AREA: 20000.00 acres 31.30 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | OXFORD, MISSISSIPPI |   |       |         | WATERSHED W-32 |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|---------------------|---|-------|---------|----------------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                 | Jul                                       | Aug   | Sep     | Oct            | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 12.42             | 3.29  | 2.43   | 5.11  | 8.96    | 5.78                | 3.51                                      | 4.66  | 4.85    | 2.90           | 4.64     | 5.63  | 64.18  |       |        |       |        |      |
|   | Q | 7.475             | 0.930 | 0.236  | 1.035 | 1.816   | 1.563               | 0.099                                     | 0.178 | 0.150   | 0.070          | 0.850    | 1.260 | 15.661 |       |        |       |        |      |
| STA AV  | P | 4.61              | 4.56  | 5.18   | 5.28  | 5.09    | 3.54                | 4.10                                      | 3.69  | 4.43    | 2.52           | 4.94     | 5.57  | 53.50  |       |        |       |        |      |
|   | Q | 1.631             | 1.617 | 1.843  | 1.531 | 1.100   | 0.404               | 0.373                                     | 0.346 | 0.378   | 0.119          | 0.978    | 1.628 | 11.948 |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                     |   |       |         |                |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                     | Maximum Volume for Selected Time Interval |       | 6 Hours |                | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                | Date                                      | Vol.  | Date    | Vol.           | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 6- 8              | 0.224 | 1-10   | 0.218 | 1-10    | 0.426               | 1-10                                      | 1.185 | 1-10    | 2.292          | 1-10     | 3.595 | 1- 9   | 4.673 | 1- 3   | 5.937 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                     |   |       |         |                |          |       |        |       |        |       |        |      |
|   |   | 2-23              | 0.570 | 2-23   | 0.560 | 7- 9    | 0.960               | 12- 3                                     | 1.940 | 12- 3   | 2.450          | 1-10     | 3.595 | 1- 9   | 4.673 | 3-24   | 6.130 |        |      |
|   |   | 1962              |       | 1962   |       | 1967    |                     | 1964                                      |       | 1964    |                | 1974     |       | 1974   |       | 1965   |       |        |      |

NOTES: Watershed conditions: About 27% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 32% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on latest survey completed in 1972. About 23% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 9 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4W, Mississippi.

| 1974 DAILY PRECIPITATION (inches)  |       |       |      |       |       |       |       |       |      |      |      |      |       |
|------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| OXFORD, MISSISSIPPI WATERSHED W-32 |       |       |      |       |       |       |       |       |      |      |      |      |       |
| Day                                | Jan   | Feb   | Mar  | Apr   | May   | Jun   | Jul   | Aug   | Sep  | Oct  | Nov  | Dec  |       |
| 1                                  | 0.0   | 0.04  | 0.0  | 0.23  | 0.34  | 0.93  | 0.0   | 0.0   | 0.15 | 0.0  | 0.0  | 0.04 |       |
| 2                                  | 0.11  | 0.0   | 0.0  | 0.0   | 0.54  | 0.0   | 0.0   | 0.02  | 1.02 | 0.0  | 0.0  | 0.0  | 0.0 T |
| 3                                  | 1.46  | 0.0   | 0.0  | 0.0   | 0.03  | 0.0   | 0.0   | 0.12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 4                                  | 0.0 T | 0.0   | 0.0  | 0.0   | 1.02  | 0.0   | 0.16  | 0.0   | 0.0  | 0.0  | 0.88 | 0.0  | 0.0   |
| 5                                  | 0.18  | 0.0 T | 0.02 | 0.0   | 0.0   | 0.22  | 0.06  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 6                                  | 0.53  | 0.10  | 0.30 | 0.0   | 0.0   | 0.02  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.26 |       |
| 7                                  | 0.09  | 0.0   | 0.0  | 0.07  | 0.0   | 0.42  | 0.0   | 0.03  | 0.0  | 0.0  | 0.0  | 0.11 |       |
| 8                                  | 0.15  | 0.0   | 0.0  | 0.37  | 0.05  | 1.61  | 0.22  | 0.0   | 0.63 | 0.0  | 0.0  | 0.0  | 0.0   |
| 9                                  | 2.00  | 0.0   | 0.0  | 0.0   | 0.0   | 0.62  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 10                                 | 4.51  | 0.0   | 0.0  | 0.0   | 0.0   | 0.22  | 0.0   | 0.23  | 0.0  | 0.0  | 0.41 | 0.0  | 0.0   |
| 11                                 | 0.09  | 0.0   | 0.37 | 0.12  | 0.34  | 0.0   | 0.05  | 0.21  | 0.47 | 0.0  | 0.20 | 0.62 |       |
| 12                                 | 0.0   | 0.0   | 0.0  | 2.11  | 0.0   | 0.01  | 0.0 T | 1.09  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0   |
| 13                                 | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.81  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0   |
| 14                                 | 0.51  | 1.03  | 0.0  | 0.44  | 0.43  | 0.0   | 0.04  | 0.0   | 0.11 | 0.66 | 0.04 | 0.41 |       |
| 15                                 | 0.05  | 0.29  | 0.0  | 0.0   | 2.59  | 0.59  | 0.13  | 0.0 T | 0.0  | 1.61 | 0.0  | 0.41 |       |
| 16                                 | 0.0   | 0.12  | 0.14 | 0.0   | 0.0   | 0.0 T | 0.0   | 0.08  | 0.0  | 0.0  | 0.61 | 0.0  | 0.0   |
| 17                                 | 0.0   | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0  | 0.04 | 0.0  | 0.0   |
| 18                                 | 0.0   | 0.90  | 0.0  | 0.01  | 0.0   | 0.80  | 0.0   | 0.17  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0   |
| 19                                 | 0.0   | 0.0 T | 0.03 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 2.00 | 0.0  | 0.0   |
| 20                                 | 0.57  | 0.0   | 0.71 | 0.0   | 0.05  | 0.0   | 0.01  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 21                                 | 0.0   | 0.65  | 0.55 | 0.02  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.86 | 0.0  | 0.0  | 0.0  | 0.0   |
| 22                                 | 0.01  | 0.16  | 0.0  | 1.68  | 2.05  | 0.34  | 0.03  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 23                                 | 0.15  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 1.95  | 0.0   | 0.0  | 0.0  | 0.0  | 0.12 | 0.0   |
| 24                                 | 0.77  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.27 | 1.88 |       |
| 25                                 | 0.18  | 0.0   | 0.05 | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.70 | 0.0  | 0.0  | 0.09 | 0.0   |
| 26                                 | 0.36  | 0.0   | 0.0  | 0.0   | 0.38  | 0.0   | 0.86  | 0.29  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0   |
| 27                                 | 0.0   | 0.0   | 0.05 | 0.0   | 0.0   | 0.0   | 0.0   | 0.44  | 0.74 | 0.0  | 0.0  | 0.86 | 0.0   |
| 28                                 | 0.70  | 0.0   | 0.21 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.15 | 0.0  | 0.09 | 0.0   |
| 29                                 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.58  | 0.0  | 0.48 | 0.04 | 0.39 | 0.0   |
| 30                                 | 0.0   | 0.0   | 0.0  | 0.06  | 0.0   | 0.0   | 0.0   | 0.59  | 0.0  | 0.0  | 0.06 | 0.05 | 0.0   |
| 31                                 | 0.0   | 0.0   | 0.0  | 0.0   | 1.14  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.16 | 0.0   |
| TOTAL                              | 12.42 | 3.29  | 2.43 | 5.11  | 8.96  | 5.78  | 3.51  | 4.66  | 4.85 | 2.90 | 4.64 | 5.63 |       |
| STA AV                             | 4.61  | 4.56  | 5.18 | 5.28  | 5.09  | 3.54  | 4.10  | 3.69  | 4.43 | 2.52 | 4.94 | 5.57 |       |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 3, 11 thru 14, 20, 21, 24 and 26. STA AV based on 18 yr (1957-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-32 |        |       |       |       |       |       |       |       |       |       |       |       |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan    | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.1    | 1.6   | 1.5   | 0.1   | 1.1   | 396.1 | 0.1   | 0.8   | 0.4   | 0.3   | 0.8   | 0.5   |
| 2  | 0.2    | 1.8   | 1.4   | 0.3   | 2.3   | 13.1  | 0.2   | 0.4   | 51.2  | 0.4   | 0.7   | 0.4   |
| 3  | 547.6  | 1.8   | 1.1   | 0.8   | 0.0   | 0.8   | 0.1   | 0.3   | 6.1   | 0.3   | 0.5   | 0.5   |
| 4  | 76.7   | 1.6   | 0.9   | 1.2   | 223.6 | 0.0   | 0.3   | 0.3   | 1.6   | 0.4   | 2.0   | 0.4   |
| 5  | 29.8   | 1.0   | 1.3   | 0.8   | 29.2  | 0.0   | 0.4   | 0.3   | 0.7   | 0.4   | 1.2   | 0.3   |
| 6  | 79.7   | 0.8   | 11.1  | 0.4   | 3.1   | 0.0   | 0.3   | 0.2   | 0.2   | 0.4   | 0.7   | 0.6   |
| 7  | 103.3  | 0.8   | 4.5   | 0.5   | 0.3   | 0.3   | 0.1   | 0.3   | 0.0   | 0.5   | 0.7   | 0.6   |
| 8  | 23.8   | 1.0   | 2.7   | 0.7   | 0.3   | 631.3 | 0.3   | 0.3   | 2.2   | 0.4   | 0.6   | 0.5   |
| 9  | 1069.8 | 0.9   | 2.5   | 1.2   | 0.3   | 16.1  | 1.1   | 0.2   | 5.4   | 0.5   | 0.7   | 0.4   |
| 10   | 2511.8 | 0.8   | 2.5   | 0.8   | 0.3   | 141.8 | 1.0   | 0.2   | 0.0   | 0.4   | 0.7   | 0.3   |
| 11   | 750.5  | 0.6   | 7.5   | 0.4   | 0.4   | 9.2   | 0.7   | 0.1   | 0.2   | 0.5   | 2.2   | 5.2   |
| 12   | 110.9  | 0.6   | 3.0   | 352.5 | 0.5   | 2.4   | 0.3   | 49.2  | 2.7   | 0.5   | 0.7   | 1.9   |
| 13   | 76.5   | 0.8   | 1.8   | 26.1  | 0.2   | 0.2   | 0.1   | 87.6  | 0.6   | 0.5   | 0.8   | 0.9   |
| 14   | 124.0  | 49.7  | 1.3   | 127.1 | 0.2   | 0.1   | 0.0   | 0.5   | 0.2   | 0.6   | 0.8   | 1.1   |
| 15   | 38.7   | 36.1  | 1.1   | 8.6   | 751.3 | 0.2   | 0.2   | 0.2   | 0.3   | 37.2  | 0.7   | 44.6  |
| 16   | 6.5    | 80.4  | 1.0   | 0.3   | 68.2  | 0.2   | 0.3   | 0.3   | 0.5   | 5.9   | 1.8   | 8.3   |
| 17   | 1.2    | 10.8  | 1.0   | 0.3   | 11.5  | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 4.0   | 1.3   |
| 18   | 0.1    | 8.3   | 1.3   | 0.5   | 0.6   | 76.5  | 0.0   | 0.3   | 0.3   | 0.8   | 2.2   | 0.3   |
| 19   | 0.0    | 280.9 | 1.9   | 0.5   | 0.0   | 16.0  | 0.1   | 0.3   | 0.3   | 0.6   | 653.9 | 0.3   |
| 20   | 63.9   | 29.2  | 2.8   | 0.5   | 0.1   | 3.5   | 0.2   | 0.0   | 0.3   | 0.3   | 31.5  | 0.3   |
| 21   | 10.4   | 186.5 | 123.5 | 0.5   | 0.0   | 2.2   | 0.3   | 0.1   | 23.3  | 0.4   | 2.3   | 0.3   |
| 22   | 0.3    | 52.4  | 12.2  | 294.4 | 384.4 | 1.3   | 0.2   | 0.0   | 0.8   | 0.4   | 0.8   | 0.3   |
| 23   | 0.1    | 15.3  | 4.3   | 39.9  | 43.2  | 0.8   | 55.9  | 0.1   | 0.1   | 0.5   | 0.6   | 0.3   |
| 24   | 214.5  | 8.1   | 2.4   | 6.2   | 1.7   | 0.3   | 0.8   | 0.0   | 0.0   | 0.5   | 0.5   | 76.3  |
| 25   | 50.4   | 3.9   | 1.3   | 0.8   | 0.3   | 0.2   | 0.0   | 0.1   | 0.8   | 0.5   | 0.5   | 367.8 |
| 26   | 79.6   | 2.3   | 0.8   | 0.9   | 0.2   | 0.2   | 15.4  | 0.1   | 0.0   | 0.5   | 0.5   | 17.3  |
| 27   | 29.0   | 1.6   | 0.3   | 1.1   | 0.3   | 0.3   | 1.8   | 2.5   | 27.2  | 0.6   | 0.5   | 310.4 |
| 28   | 256.5  | 1.6   | 0.3   | 0.9   | 0.2   | 0.2   | 0.4   | 0.3   | 0.5   | 0.6   | 0.4   | 102.9 |
| 29   | 28.6   |       | 0.3   | 0.8   | 0.0   | 0.1   | 0.5   | 2.8   | 0.0   | 1.6   | 0.7   | 83.2  |
| 30   | 3.6    |       | 0.2   | 0.9   | 0.1   | 0.1   | 0.8   | 0.8   | 0.0   | 0.7   | 0.7   | 22.3  |
| 31   | 1.8    |       | 0.1   |       | 2.2   |       | 0.7   | 1.3   |       | 0.8   |       | 8.7   |
| MEAN   | 202.60 | 27.90 | 6.39  | 29.00 | 49.22 | 43.78 | 2.67  | 4.82  | 4.20  | 1.90  | 23.81 | 34.15 |
| INCHES   | 7.475  | 0.930 | 0.236 | 1.035 | 1.816 | 1.563 | 0.099 | 0.178 | 0.150 | 0.070 | 0.850 | 1.260 |
| STA AV   | 1.631  | 1.617 | 1.843 | 1.531 | 1.100 | 0.404 | 0.373 | 0.346 | 0.378 | 0.119 | 0.978 | 1.628 |

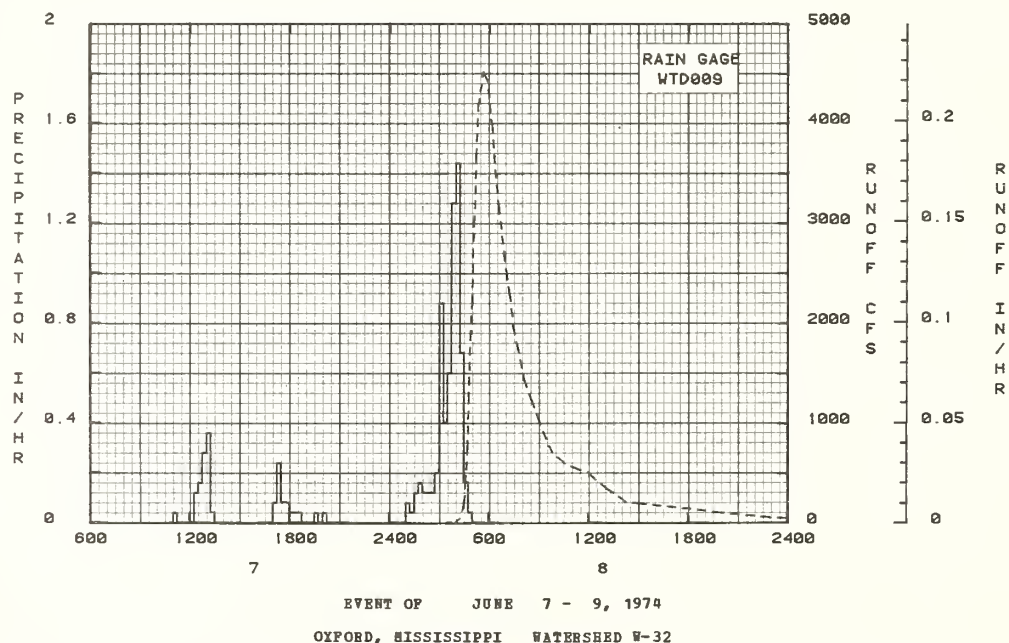
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

| 1974  | SELECTED RUNOFF EVENT |          |           |        |           | OXFORD, MISSISSIPPI |        |        | WATERSHED W-32 |          |  |  |
|---|-----------------------|----------|-----------|--------|-----------|---------------------|--------|--------|----------------|----------|--|--|
| ANTECEDENT CONDITIONS                               |                       |          | RAINFALL  |        |           |                     | RUNOFF |        |                |          |  |  |
| Date  | Rainfall              | Rnoff    | Date      | Time   | Intensity | Acc.                | Date   | Time   | Rate           | Acc.     |  |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches)            | Mo-Day | of Day | (cfs)          | (inches) |  |  |
| EVENT OF JUNE 7 - 9, 1974                           |                       |          |           |        |           |                     |        |        |                |          |  |  |
| RG WTD009   |                       |          | RG WTD009 |        |           |                     |        |        |                |          |  |  |
| 6- 7  | 0.0                   |          | 6- 7      | 1100   | 0.0       | 0.0                 | 6- 8   | 328    | 0.300          | 0.0      |  |  |
| 6- 8  |                       | 0.000    |           | 1115   | 0.0400    | 0.01                |        | 346    | 11.700         | 0.0001   |  |  |
|   |                       |          |           | 1130   | 0.0       | 0.01                |        | 402    | 17.623         | 0.0003   |  |  |
|   |                       |          |           | 1145   | 0.0       | 0.01                |        | 416    | 46.352         | 0.0007   |  |  |
|   |                       |          |           | 1200   | 0.0       | 0.01                |        | 428    | 146.973        | 0.0016   |  |  |
| WATERSHED CONDITIONS:                               |                       |          |           | 1215   | 0.0       | 0.01                |        | 434    | 270.000        | 0.0027   |  |  |
| About 27% of area in cultivation, primarily cotton, |                       |          |           | 1230   | 0.1200    | 0.04                |        | 438    | 474.000        | 0.0039   |  |  |
| corn and soybeans, and rye                          |                       |          |           | 1245   | 0.1600    | 0.08                |        | 440    | 535.936        | 0.0047   |  |  |
| grass, poor to fair cover;                          |                       |          |           | 1300   | 0.2800    | 0.15                |        | 444    | 823.424        | 0.0070   |  |  |
| 32% in pasture and idle                             |                       |          |           | 1315   | 0.3600    | 0.24                |        | 448    | 1309.998       | 0.0105   |  |  |
| land, fair to good cover;                           |                       |          |           | 1330   | 0.0400    | 0.25                |        | 454    | 1928.000       | 0.0185   |  |  |
| 40% in woods, good cover; 1%                        |                       |          |           | 1345   | 0.0       | 0.25                |        | 500    | 2209.999       | 0.0288   |  |  |
| in bare gullies.                                    |                       |          |           | 1615   | 0.0       | 0.25                |        | 502    | 2747.518       | 0.0329   |  |  |
|   |                       |          |           | 1630   | 0.0       | 0.25                |        | 508    | 3075.998       | 0.0473   |  |  |
|   |                       |          |           | 1645   | 0.0       | 0.25                |        | 514    | 3747.999       | 0.0642   |  |  |
|   |                       |          |           | 1700   | 0.0       | 0.25                |        | 520    | 4171.984       | 0.0839   |  |  |
|   |                       |          |           | 1715   | 0.0800    | 0.27                |        | 538    | 4515.984       | 0.1485   |  |  |
|   |                       |          |           | 1730   | 0.2400    | 0.33                |        | 554    | 4411.984       | 0.2075   |  |  |
|   |                       |          |           | 1745   | 0.0806    | 0.35                |        | 612    | 3907.998       | 0.2694   |  |  |
|   |                       |          |           | 1800   | 0.0800    | 0.37                |        | 624    | 3451.998       | 0.3059   |  |  |
|   |                       |          |           | 1815   | 0.0400    | 0.38                |        | 638    | 3091.999       | 0.3438   |  |  |
|   |                       |          |           | 1830   | 0.0400    | 0.39                |        | 654    | 2692.593       | 0.3820   |  |  |
|   |                       |          |           | 1845   | 0.0400    | 0.40                |        | 706    | 2433.998       | 0.4074   |  |  |
|   |                       |          |           | 1900   | 0.0       | 0.40                |        | 718    | 2216.998       | 0.4305   |  |  |
|   |                       |          |           | 1915   | 0.0       | 0.40                |        | 728    | 1957.684       | 0.4477   |  |  |
|   |                       |          |           | 1930   | 0.0       | 0.40                |        | 742    | 1777.999       | 0.4694   |  |  |
|   |                       |          |           | 1945   | 0.0400    | 0.41                |        | 808    | 1429.999       | 0.5038   |  |  |
|   |                       |          |           | 2000   | 0.0       | 0.41                |        | 834    | 1225.999       | 0.5324   |  |  |
|   |                       |          |           | 2015   | 0.0400    | 0.42                |        | 906    | 980.000        | 0.5615   |  |  |
|   |                       |          |           | 2030   | 0.0       | 0.42                |        | 948    | 702.584        | 0.5907   |  |  |

NOTES: To convert rnoff in CFS to IN/8R, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gage 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62010-1 and 2.

| 1974 SELECTED RUNOFF EVENT            |                      |                    | OXFORD, MISSISSIPPI |                |                      | WATERSHED W-32   |                |                  |
|---------------------------------------|----------------------|--------------------|---------------------|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                 |                      |                    | RAINFALL            |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                        | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|                                       |                      |                    |                     |                |                      |                  |                | Rate<br>(cfs)    |
|                                       |                      |                    |                     |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF JUNE 7 - 9, 1974 (CONTINUED) |                      |                    |                     |                |                      |                  |                |                  |
| 6- 7                                  | 2045                 | 0.0                | 0.42                | 6- 8           | 1032                 | 597.687          | 0.6144         |                  |
|                                       | 2100                 | 0.0                | 0.42                |                | 1132                 | 525.250          | 0.6422         |                  |
|                                       | 2115                 | 0.0002             | 0.42                |                | 1158                 | 504.738          | 0.6533         |                  |
| 6- 8                                  | 15                   | 0.0                | 0.42                |                | 1226                 | 430.500          | 0.6641         |                  |
|                                       | 30                   | 0.0                | 0.42                |                | 1308                 | 337.500          | 0.6774         |                  |
|                                       | 45                   | 0.0                | 0.42                |                | 1328                 | 303.000          | 0.6827         |                  |
|                                       | 100                  | 0.0                | 0.42                |                | 1416                 | 204.000          | 0.6928         |                  |
|                                       | 115                  | 0.0800             | 0.44                |                | 1500                 | 195.000          | 0.7000         |                  |
|                                       | 130                  | 0.0400             | 0.45                |                | 1716                 | 156.000          | 0.7197         |                  |
|                                       | 145                  | 0.1200             | 0.48                |                | 1944                 | 107.625          | 0.7359         |                  |
|                                       | 200                  | 0.1600             | 0.52                |                | 2258                 | 51.948           | 0.7487         |                  |
|                                       | 215                  | 0.1200             | 0.55                |                | 2400                 | 46.352           | 0.7512         |                  |
|                                       | 230                  | 0.1200             | 0.58                | 6- 9           | 614                  | 16.569           | 0.7609         |                  |
|                                       | 245                  | 0.1200             | 0.61                |                | 1214                 | 9.952            | 0.7648         |                  |
|                                       | 300                  | 0.2000             | 0.66                |                | 1812                 | 9.109            | 0.7677         |                  |
|                                       | 315                  | 0.8800             | 0.88                |                | 2344                 | 9.952            | 0.7703         |                  |
|                                       | 330                  | 0.4000             | 0.98                |                | 2400                 | 7.506            | 0.7704         |                  |
|                                       | 345                  | 0.6000             | 1.13                |                |                      |                  |                |                  |
|                                       | 400                  | 1.2800             | 1.45                |                |                      |                  |                |                  |
|                                       | 415                  | 1.4400             | 1.81                |                |                      |                  |                |                  |
|                                       | 430                  | 0.6800             | 1.98                |                |                      |                  |                |                  |
|                                       | 445                  | 0.1600             | 2.02                |                |                      |                  |                |                  |
|                                       | 500                  | 0.0400             | 2.03                |                |                      |                  |                |                  |
|                                       | 515                  | 0.0                | 2.03                |                |                      |                  |                |                  |
|                                       | 530                  | 0.0                | 2.03                |                |                      |                  |                |                  |
|                                       | 545                  | 0.0                | 2.03                |                |                      |                  |                |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gage 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62010-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Byhalia on County road; Pigeon Roost Creek, Yazoo River Basin.  
Lat. 34 deg. 45 min. 34 sec. N.; Long. 89 deg. 41 min. 45 sec. W.

AREA: 75000.00 acres 117.20 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |         |       |          |       |       |       | OXFORD, MISSISSIPPI WATERSHED W-34 |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---------|-------|----------|-------|-------|-------|------------------------------------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual                             |       |
| 1974  | P | 11.39             | 3.18  | 2.73   | 4.46  | 8.13    | 5.48  | 4.25    | 5.17  | 4.23     | 2.80  | 4.45  | 5.58  | 61.85                              |       |
|   | Q | 3.743             | 1.328 | 1.006  | 1.157 | 2.140   | 2.045 | 0.990   | 0.875 | 0.550    | 0.623 | 1.021 | 1.830 | 17.306                             |       |
| STA AV  | P | 4.68              | 4.51  | 4.97   | 5.13  | 4.72    | 3.29  | 4.27    | 3.96  | 4.33     | 2.21  | 4.89  | 5.58  | 52.53                              |       |
|   | Q | 1.654             | 1.897 | 2.022  | 1.643 | 1.264   | 0.661 | 0.834   | 0.717 | 0.713    | 0.445 | 1.156 | 1.751 | 14.755                             |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                    |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days                             |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date                               | Vol.  |
| 1974  |   | 1-10              | 0.132 | 1-10   | 0.127 | 1-10    | 0.242 | 1-10    | 0.648 | 1-10     | 0.928 | 1-10  | 1.431 | 1-9                                | 1.802 |
|   |   |                   |       |        |       |         |       |         |       |          |       |       |       | 1-3                                | 2.481 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |         |       |          |       |       |       |                                    |       |
|   |   | 2-21              | 0.166 | 2-21   | 0.162 | 2-21    | 0.310 | 7-9     | 0.800 | 7-9      | 1.410 | 11-27 | 2.270 | 12-3                               | 2.720 |
|   |   | 1971              |       | 1971   |       | 1971    |       | 1967    |       | 1967     |       | 1968  |       | 1964                               | 1965  |

NOTES: Watershed conditions: About 21% in cultivation (cotton, corn, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% bare gullies; 2% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 21% of drainage area principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.11-4. Monthly precipitation Thiessen weighted from 21 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. Runoff for period Oct. 1969 thru Dec. 1970 discontinued due to dredging. For long-time precipitation records, see National Weather Service records at Holly Springs, 4W, Mississippi.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |      |       |       |      |      |      |      |      |       | OXFORD, MISSISSIPPI WATERSHED W-34 |  |
|-----------------------------------|-------|-------|-------|-------|------|-------|-------|------|------|------|------|------|-------|------------------------------------|--|
|                                   | Day   | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul  | Aug  | Sep  | Oct  | Nov  | Dec   |                                    |  |
| 1                                 | 0.0   | 0.06  | 0.0   | 0.13  | 0.30 | 0.91  | 0.0   | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.03  |                                    |  |
| 2                                 | 0.10  | 0.0   | 0.0   | 0.0   | 0.51 | 0.0   | 0.0   | 0.01 | 0.55 | 0.0  | 0.0  | 0.0  | 0.0 T |                                    |  |
| 3                                 | 1.23  | 0.0   | 0.0   | 0.0   | 0.0  | 0.15  | 0.0   | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0   |                                    |  |
| 4                                 | 0.01  | 0.0   | 0.0   | 0.0   | 0.0  | 0.61  | 0.0   | 0.12 | 0.0  | 0.0  | 0.0  | 0.80 | 0.0   |                                    |  |
| 5                                 | 0.19  | 0.0 T | 0.01  | 0.0   | 0.0  | 0.0   | 0.26  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                                    |  |
| 6                                 | 0.48  | 0.23  | 0.78  | 0.0   | 0.0  | 0.0   | 0.04  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21  |                                    |  |
| 7                                 | 0.17  | 0.0   | 0.0   | 0.07  | 0.0  | 0.46  | 0.01  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12  |                                    |  |
| 8                                 | 0.21  | 0.0   | 0.0   | 0.30  | 0.06 | 1.55  | 0.31  | 0.0  | 0.82 | 0.0  | 0.0  | 0.0  | 0.0   |                                    |  |
| 9                                 | 1.47  | 0.0   | 0.0   | 0.0 T | 0.0  | 0.67  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                                    |  |
| 10                                | 4.43  | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.18  | 0.0  | 0.21 | 0.0  | 0.0  | 0.41 | 0.0   |                                    |  |
| 11                                | 0.07  | 0.0   | 0.35  | 0.08  | 0.28 | 0.0   | 0.10  | 0.27 | 0.33 | 0.0  | 0.19 | 0.57 |       |                                    |  |
| 12                                | 0.0 T | 0.0   | 0.0   | 2.00  | 0.0  | 0.0 T | 0.0 T | 1.46 | 0.12 | 0.0  | 0.0  | 0.0  |       |                                    |  |
| 13                                | 0.0   | 0.01  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.85 | 0.01 | 0.0  | 0.0  | 0.0  |       |                                    |  |
| 14                                | 0.49  | 1.04  | 0.0   | 0.24  | 0.33 | 0.0   | 0.03  | 0.0  | 0.06 | 0.59 | 0.02 | 0.37 |       |                                    |  |
| 15                                | 0.05  | 0.25  | 0.0 T | 0.0   | 2.32 | 0.60  | 0.09  | 0.37 | 0.0  | 1.59 | 0.0  | 0.40 |       |                                    |  |
| 16                                | 0.0   | 0.12  | 0.15  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.16 | 0.0  | 0.0  | 0.61 | 0.0  |       |                                    |  |
| 17                                | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.01 | 0.0  | 0.0  | 0.10 | 0.0  |       |                                    |  |
| 18                                | 0.0   | 0.81  | 0.0   | 0.0 T | 0.0  | 0.64  | 0.0   | 0.13 | 0.0  | 0.0  | 0.06 | 0.0  |       |                                    |  |
| 19                                | 0.0   | 0.0 T | 0.02  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 1.84 | 0.0  |       |                                    |  |
| 20                                | 0.49  | 0.0   | 0.64  | 0.0   | 0.03 | 0.0   | 0.0 T | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |       |                                    |  |
| 21                                | 0.0   | 0.62  | 0.54  | 0.05  | 0.01 | 0.0   | 0.0   | 0.0  | 0.83 | 0.0  | 0.0  | 0.0  |       |                                    |  |
| 22                                | 0.01  | 0.04  | 0.0   | 1.53  | 2.05 | 0.17  | 0.04  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |       |                                    |  |
| 23                                | 0.13  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 2.34  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 |       |                                    |  |
| 24                                | 0.65  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0  | 0.0  | 0.0  | 0.30 | 2.09 |       |                                    |  |
| 25                                | 0.16  | 0.0   | 0.05  | 0.0   | 0.0  | 0.0   | 0.01  | 0.0  | 0.75 | 0.0  | 0.0  | 0.09 |       |                                    |  |
| 26                                | 0.34  | 0.0   | 0.0   | 0.0   | 0.33 | 0.0   | 1.17  | 0.17 | 0.01 | 0.0  | 0.0  | 0.15 |       |                                    |  |
| 27                                | 0.0   | 0.0   | 0.04  | 0.0   | 0.0  | 0.0   | 0.0   | 0.34 | 0.65 | 0.0  | 0.0  | 0.81 |       |                                    |  |
| 28                                | 0.71  | 0.0   | 0.15  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.15 | 0.0  | 0.09 |       |                                    |  |
| 29                                | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.59 | 0.0  | 0.47 | 0.05 | 0.33 |       |                                    |  |
| 30                                | 0.0   | 0.0   | 0.0   | 0.06  | 0.0  | 0.0   | 0.0   | 0.48 | 0.0  | 0.0  | 0.07 | 0.06 |       |                                    |  |
| 31                                | 0.0   |       | 0.0   |       | 1.15 |       | 0.0   | 0.0  |      |      |      | 0.13 |       |                                    |  |
| TOTAL                             |       | 11.39 | 3.18  | 2.73  | 4.46 | 8.13  | 5.48  | 4.25 | 5.17 | 4.23 | 2.80 | 4.45 | 5.58  |                                    |  |
| STA AV                            |       | 4.68  | 4.51  | 4.97  | 5.13 | 4.72  | 3.29  | 4.27 | 3.96 | 4.33 | 2.21 | 4.89 | 5.58  |                                    |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C, (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27 and 31. STA AV based on 17 yr (1957-69, 1971-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-34 |        |        |        |        |        |        |        |       |       |       |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug   | Sep   | Oct   | Nov    | Dec    |
| 1  | 44.4   | 60.2   | 58.3   | 48.2   | 55.5   | 1548.7 | 75.3   | 75.3  | 43.5  | 41.0  | 56.7   | 47.0   |
| 2  | 64.9   | 55.1   | 56.4   | 50.7   | 128.6  | 144.9  | 73.1   | 75.0  | 83.8  | 44.4  | 56.7   | 47.9   |
| 3  | 807.3  | 53.6   | 52.3   | 49.5   | 88.2   | 68.1   | 71.2   | 69.3  | 72.2  | 48.2  | 54.8   | 49.5   |
| 4  | 267.2  | 49.5   | 52.0   | 46.6   | 357.0  | 58.3   | 71.2   | 65.5  | 44.7  | 47.9  | 75.9   | 47.9   |
| 5  | 86.3   | 51.7   | 52.3   | 47.0   | 140.9  | 90.4   | 73.1   | 65.5  | 43.2  | 44.7  | 78.5   | 49.5   |
| 6  | 220.9  | 122.3  | 592.7  | 46.6   | 64.6   | 98.3   | 75.3   | 65.5  | 44.4  | 42.2  | 60.2   | 52.0   |
| 7  | 252.7  | 70.3   | 140.9  | 48.2   | 53.6   | 184.3  | 73.1   | 69.0  | 45.7  | 43.2  | 61.8   | 64.6   |
| 8  | 121.3  | 54.8   | 93.0   | 47.0   | 52.3   | 1689.3 | 95.5   | 69.3  | 76.3  | 45.7  | 61.8   | 62.1   |
| 9  | 1567.0 | 55.1   | 85.1   | 48.2   | 50.4   | 257.4  | 95.5   | 65.5  | 73.4  | 51.0  | 56.7   | 47.0   |
| 10   | 3153.6 | 54.8   | 75.3   | 53.3   | 52.0   | 651.6  | 73.1   | 67.4  | 42.2  | 53.3  | 68.1   | 52.3   |
| 11   | 1717.3 | 56.7   | 105.6  | 53.6   | 60.8   | 94.2   | 71.2   | 88.9  | 49.2  | 52.0  | 76.6   | 121.3  |
| 12   | 111.5  | 56.7   | 84.4   | 911.0  | 62.1   | 65.5   | 71.2   | 304.4 | 72.5  | 50.7  | 55.1   | 65.2   |
| 13   | 92.6   | 56.7   | 58.3   | 231.9  | 53.6   | 57.0   | 69.3   | 552.4 | 58.3  | 55.8  | 53.6   | 46.6   |
| 14   | 265.0  | 314.8  | 61.8   | 240.7  | 56.1   | 48.2   | 67.4   | 79.4  | 44.4  | 67.4  | 56.7   | 52.6   |
| 15   | 150.0  | 339.7  | 61.8   | 50.4   | 2559.0 | 133.6  | 69.3   | 119.7 | 42.2  | 306.9 | 58.3   | 321.7  |
| 16   | 43.2   | 411.5  | 58.3   | 54.8   | 385.4  | 92.0   | 71.2   | 139.0 | 42.2  | 128.6 | 56.4   | 94.5   |
| 17   | 45.7   | 143.1  | 58.6   | 53.6   | 129.8  | 60.2   | 67.4   | 69.6  | 42.2  | 57.0  | 55.1   | 69.0   |
| 18   | 41.0   | 120.1  | 71.5   | 55.1   | 119.4  | 169.8  | 63.6   | 47.3  | 42.2  | 50.4  | 60.2   | 59.6   |
| 19   | 27.4   | 685.4  | 81.0   | 42.5   | 94.8   | 104.6  | 67.4   | 41.0  | 41.3  | 52.3  | 1266.4 | 46.6   |
| 20   | 233.8  | 102.4  | 92.3   | 39.4   | 70.6   | 77.2   | 67.1   | 40.0  | 46.6  | 55.1  | 274.5  | 47.0   |
| 21   | 102.7  | 462.9  | 597.8  | 49.5   | 52.0   | 79.4   | 67.4   | 40.0  | 98.6  | 53.3  | 100.5  | 50.7   |
| 22   | 42.5   | 363.6  | 125.7  | 757.5  | 1197.1 | 79.1   | 71.2   | 41.0  | 53.6  | 55.1  | 67.1   | 55.1   |
| 23   | 32.5   | 110.0  | 49.5   | 187.8  | 279.5  | 73.1   | 606.3  | 40.0  | 42.2  | 58.3  | 50.7   | 58.3   |
| 24   | 558.4  | 77.2   | 50.4   | 100.2  | 88.5   | 67.4   | 142.4  | 41.3  | 43.5  | 56.7  | 52.0   | 801.9  |
| 25   | 199.5  | 71.2   | 52.0   | 72.8   | 67.7   | 69.3   | 60.5   | 45.7  | 90.1  | 56.7  | 50.7   | 1327.5 |
| 26   | 279.8  | 64.0   | 52.3   | 55.1   | 65.9   | 75.3   | 338.1  | 44.4  | 72.8  | 53.6  | 50.7   | 114.1  |
| 27   | 182.4  | 59.9   | 52.0   | 55.1   | 67.4   | 75.0   | 88.2   | 48.5  | 147.2 | 55.8  | 52.0   | 863.1  |
| 28   | 757.2  | 60.2   | 50.4   | 50.4   | 61.8   | 79.1   | 81.3   | 67.1  | 54.2  | 55.5  | 50.4   | 395.1  |
| 29   | 173.6  |        | 50.7   | 49.5   | 65.5   | 79.4   | 69.3   | 102.4 | 40.0  | 57.3  | 49.5   | 403.4  |
| 30   | 88.5   |        | 49.5   | 49.2   | 67.1   | 73.1   | 65.2   | 62.7  | 40.0  | 63.7  | 47.9   | 158.5  |
| 31   | 63.6   |        | 46.6   |        | 94.8   |        | 69.3   | 53.9  |       | 58.3  |        | 96.5   |
| MEAN   | 380.45 | 149.40 | 102.22 | 121.51 | 217.48 | 214.81 | 100.68 | 88.91 | 57.76 | 63.30 | 107.19 | 186.06 |
| INCHES   | 3.743  | 1.328  | 1.006  | 1.157  | 2.140  | 2.045  | 0.990  | 0.875 | 0.550 | 0.623 | 1.021  | 1.830  |
| STA AV   | 1.654  | 1.897  | 2.022  | 1.643  | 1.264  | 0.661  | 0.834  | 0.717 | 0.713 | 0.445 | 1.156  | 1.751  |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. Rnoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. STA AV based on 17 yr (1957-69, 1971-74) record period. Part-year amounts are included in station averages.

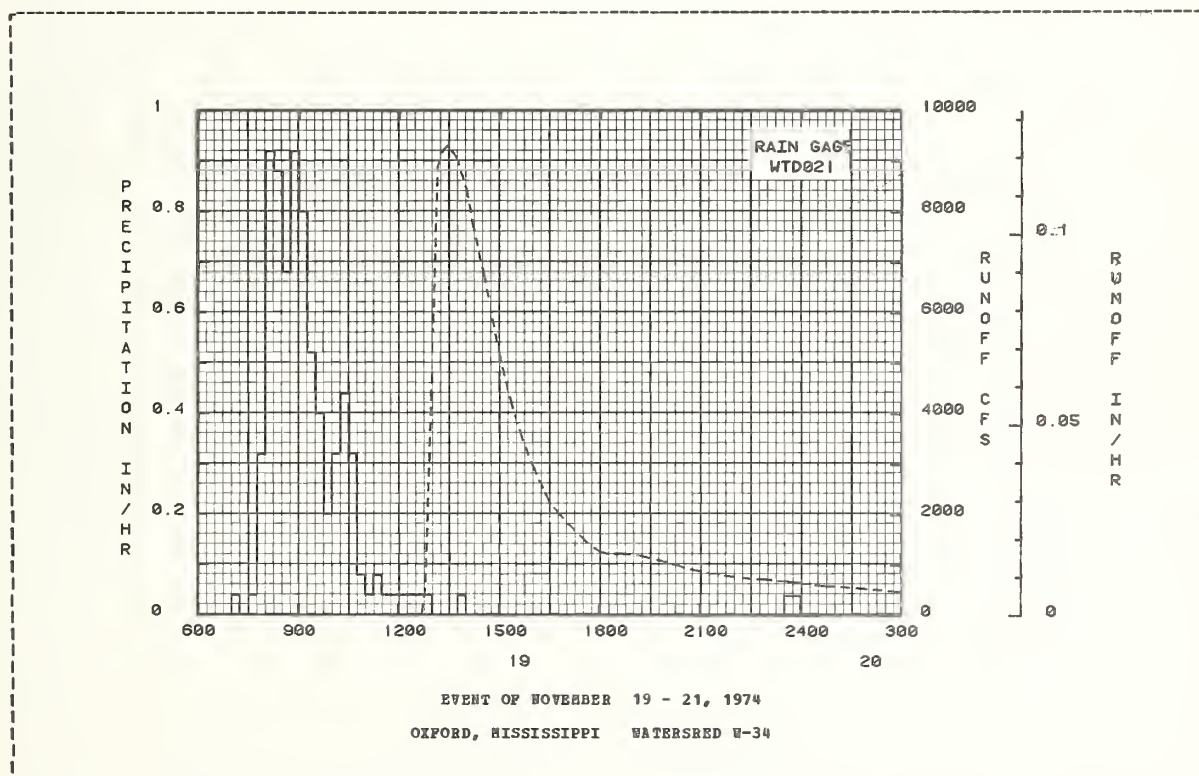
| 1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-34  |          |          |           |        |           |          |        |        |          |          |  |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|----------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |          |          |  |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate     | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)    | (inches) |  |  |
| EVENT OF NOVEMBER 19 - 21, 1974  |          |          |           |        |           |          |        |        |          |          |  |  |
| RG WTD021  |          |          | RG WTD021 |        |           |          |        |        |          |          |  |  |
| 11-19  | 0.0      | 0.012    | 11-19     | 700    | 0.0       | 0.0      | 11-19  | 1242   | 73.188   | 0.0      |  |  |
|  |          |          |           | 715    | 0.0400    | 0.01     |        | 1248   | 521.467  | 0.0004   |  |  |
|  |          |          |           | 730    | 0.0       | 0.01     |        | 1258   | 4473.727 | 0.0059   |  |  |
|  |          |          |           | 745    | 0.0400    | 0.02     |        | 1308   | 8889.965 | 0.0207   |  |  |
|  |          |          |           | 800    | 0.3200    | 0.10     |        | 1318   | 9230.004 | 0.0406   |  |  |
| WATERSHED CONDITIONS:  |          |          |           | 815    | 0.9200    | 0.33     |        | 1326   | 9310.594 | 0.0570   |  |  |
| About 21% of area in cultivation, primarily cotton, corn, ryegrass, and soybeans, poor to fair cover; 28% in pasture and idle land, fair cover; 48% in woods, good cover; 1% in bare gullies and 2% urban. |          |          |           | 830    | 0.8800    | 0.55     |        | 1342   | 9069.965 | 0.0894   |  |  |
|  |          |          |           | 845    | 0.6800    | 0.72     |        | 1400   | 8429.965 | 0.1241   |  |  |
|  |          |          |           | 900    | 0.9200    | 0.95     |        | 1414   | 7619.395 | 0.1488   |  |  |
|  |          |          |           | 915    | 0.8000    | 1.15     |        | 1434   | 6600.969 | 0.1802   |  |  |
|  |          |          |           | 930    | 0.5200    | 1.28     |        | 1502   | 5044.348 | 0.2161   |  |  |
|  |          |          |           | 945    | 0.4000    | 1.38     |        | 1520   | 4241.707 | 0.2345   |  |  |
|  |          |          |           | 1000   | 0.2000    | 1.43     |        | 1542   | 3455.996 | 0.2532   |  |  |
|  |          |          |           | 1015   | 0.3200    | 1.51     |        | 1606   | 2800.341 | 0.2697   |  |  |
|  |          |          |           | 1030   | 0.4400    | 1.62     |        | 1630   | 2247.997 | 0.2831   |  |  |
|  |          |          |           | 1045   | 0.3200    | 1.70     |        | 1654   | 1927.000 | 0.2941   |  |  |
|  |          |          |           | 1100   | 0.0800    | 1.72     |        | 1716   | 1683.759 | 0.3029   |  |  |
|  |          |          |           | 1115   | 0.0400    | 1.73     |        | 1740   | 1408.999 | 0.3111   |  |  |
|  |          |          |           | 1130   | 0.0800    | 1.75     |        | 1802   | 1254.000 | 0.3175   |  |  |
|  |          |          |           | 1145   | 0.0400    | 1.76     |        | 1814   | 1223.999 | 0.3208   |  |  |
|  |          |          |           | 1200   | 0.0400    | 1.77     |        | 1838   | 1223.999 | 0.3273   |  |  |
|  |          |          |           | 1215   | 0.0400    | 1.78     |        | 1854   | 1211.999 | 0.3316   |  |  |
|  |          |          |           | 1230   | 0.0400    | 1.79     |        | 1918   | 1169.998 | 0.3379   |  |  |
|  |          |          |           | 1245   | 0.0400    | 1.80     |        | 1946   | 1091.842 | 0.3448   |  |  |
|  |          |          |           | 1300   | 0.0400    | 1.81     |        | 2018   | 995.000  | 0.3522   |  |  |
|  |          |          |           | 1330   | 0.0       | 1.81     |        | 2048   | 901.499  | 0.3585   |  |  |
|  |          |          |           | 1345   | 0.0       | 1.81     |        | 2118   | 835.294  | 0.3642   |  |  |
|  |          |          |           | 1400   | 0.0400    | 1.82     |        | 2202   | 765.000  | 0.3720   |  |  |
|  |          |          |           | 2300   | 0.0       | 1.82     |        | 2230   | 730.000  | 0.3766   |  |  |
|  |          |          |           | 2315   | 0.0       | 1.82     |        | 2254   | 719.999  | 0.3804   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27, and 31. For 30-day antecedent P and Q, see tables on pp. 62.011-1 and 2.



| 1974 SELECTED RUNOFF EVENT                  |                      |                    | OXFORD, MISSISSIPPI |                |                      | WATERSHED W-34   |                |                  |
|---|----------------------|--------------------|---------------------|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                       |                      |                    | RAINFALL            |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                              | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day      | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|   |                      |                    |                     |                |                      |                  |                | Rate<br>(cfs)    |
|   |                      |                    |                     |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF NOVEMBER 19 - 21, 1974 (CONTINUED) |                      |                    |                     |                |                      |                  |                |                  |
| 11-19                                       |                      |                    | 2330                |                | 0.0                  | 1.82             | 11-19          | 2332             |
|   |                      |                    | 2345                |                | 0.0400               | 1.83             |                | 2358             |
|   |                      |                    | 2400                |                | 0.0400               | 1.84             |                | 2400             |
|   |                      |                    |                     |                |                      |                  | 11-20          | 40               |
|   |                      |                    |                     |                |                      |                  |                | 100              |
|   |                      |                    |                     |                |                      |                  |                | 158              |
|   |                      |                    |                     |                |                      |                  |                | 300              |
|   |                      |                    |                     |                |                      |                  |                | 432              |
|   |                      |                    |                     |                |                      |                  |                | 558              |
|   |                      |                    |                     |                |                      |                  |                | 702              |
|   |                      |                    |                     |                |                      |                  |                | 726              |
|   |                      |                    |                     |                |                      |                  |                | 844              |
|   |                      |                    |                     |                |                      |                  |                | 914              |
|   |                      |                    |                     |                |                      |                  |                | 1046             |
|   |                      |                    |                     |                |                      |                  |                | 1202             |
|   |                      |                    |                     |                |                      |                  |                | 1330             |
|   |                      |                    |                     |                |                      |                  |                | 1500             |
|   |                      |                    |                     |                |                      |                  |                | 1632             |
|   |                      |                    |                     |                |                      |                  |                | 1800             |
|   |                      |                    |                     |                |                      |                  |                | 2102             |
|   |                      |                    |                     |                |                      |                  |                | 2244             |
|   |                      |                    |                     |                |                      |                  |                | 2400             |
|   |                      |                    |                     |                |                      |                  | 11-21          | 2400             |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27, and 31. For 30-day antecedent P and Q, see tables on pp. 62.011-1 and 2.



## TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 45 sec. N.; Long. 110 deg. 09 min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | TOMBSTONE, ARIZONA WATERSHED W-1 |   |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|----------------------------------|---|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                              | Jul   | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 1.21              | 0.0   | 0.24   | 0.0   | 0.05    | 0.19                             | 4.02  | 2.72  | 1.84     | 1.86  | 0.01  | 0.19  | 12.33  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0                              | 0.015   | 0.040 | 0.021    | 0.0   | 0.0   | 0.0   | 0.076  |       |        |       |
| STA AV  | P | 0.39              | 0.52  | 0.79   | 0.15  | 0.13    | 0.42                             | 3.27  | 3.40  | 1.15     | 0.90  | 0.30  | 0.46  | 11.89  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0                              | 0.027   | 0.074 | 0.007    | 0.0   | 0.0   | 0.0   | 0.108  |       |        |       |
|   |   |                   |       |        |       |         |                                  |   |       |          |       |       |       |        |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                  |   |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                  | Maximum Volume for Selected Time Interval 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                             | Date  | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 8- 5              | 0.017 | 8- 5   | 0.012 | 8- 5    | 0.021                            | 8- 5  | 0.024 | 8- 5     | 0.024 | 8- 4  | 0.024 | 8- 3   | 0.024 | 7-28   | 0.038 |
|   |   |                   |       |        |       |         |                                  |   |       |          |       |       |       |        |       |        |       |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                  |   |       |          |       |       |       |        |       |        |       |
|   |   | 8-12              | 0.163 | 8-12   | 0.092 | 9- 9    | 0.130                            | 9- 9  | 0.160 | 9- 9     | 0.190 | 9- 9  | 0.190 | 9- 8   | 0.230 | 9- 8   | 0.310 |
|   |   | 1972              |       | 1972   |       | 1964    |                                  | 1964  |       | 1964     |       | 1964  |       | 1964   |       | 1964   |       |

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: records began January 1954. Monthly totals are Thiessen weighted averages of 90 gages. Station averages are based on 1968-74 data. Runoff Data: Records began April 1964, station averages are based on 1966, 1968-74 data. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY AIR TEMPERATURE (degrees F) |      |     |      |     |      |     |      |     |      |     |      |     |      | TOMBSTONE, ARIZONA WATERSHED W-1 |      |     |      |     |      |     |      |     |      |     |  |
|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----------------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|--|
| Day                                    | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul  |                                  | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |  |
|  | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min                              | max  | min | max  | min | max  | min | max  | min | max  | min |  |
| 1                                      | 61   | 42  | 67   | 36  | 80   | 49  | 73   | 42  | 84   | 50  | 93   | 56  | 98   | 71                               | 91   | 70  | 90   | 69  | 86   | 59  | 67   | 40  | 56   | 39  |  |
| 2                                      | 48   | 33  | 59   | 34  | 73   | 53  | 64   | 52  | 86   | 52  | 95   | 62  | 92   | 68                               | 84   | 62  | 92   | 69  | 87   | 63  | 61   | 51  | 67   | 44  |  |
| 3                                      | 54   | 31  | 61   | 32  | 70   | 54  | 66   | 44  | 86   | 54  | 93   | 60  | 90   | 67                               | 84   | 65  | 84   | 65  | 84   | 64  | 66   | 38  | 67   | 37  |  |
| 4                                      | 54   | 34  | 66   | 33  | 62   | 34  | 70   | 36  | 85   | 54  | 92   | 60  | 97   | 64                               | 82   | 66  | 90   | 62  | 87   | 62  | 62   | 35  | 60   | 45  |  |
| 5                                      | 52   | 42  | 66   | 38  | 70   | 34  | 78   | 43  | 84   | 52  | 92   | 59  | 88   | 66                               | 85   | 64  | 92   | 63  | 78   | 66  | 65   | 40  | 54   | 43  |  |
| 6                                      | 56   | 36  | 61   | 40  | 71   | 42  | 82   | 50  | 85   | 49  | 92   | 60  | 91   | 66                               | 88   | 64  | 91   | 64  | 76   | 62  | 66   | 41  | 55   | 37  |  |
| 7                                      | 58   | 38  | 49   | 24  | 69   | 52  | 81   | 48  | 85   | 54  | 90   | 63  | 82   | 66                               | 92   | 64  | 92   | 62  | 77   | 57  | 66   | 43  | 61   | 32  |  |
| 8                                      | 54   | 44  | 47   | 22  | 57   | 45  | 86   | 49  | 84   | 53  | 86   | 58  | 87   | 65                               | 88   | 68  | 95   | 66  | 82   | 61  | 58   | 52  | 50   | 32  |  |
| 9                                      | 53   | 46  | 53   | 25  | 51   | 34  | 80   | 53  | 83   | 51  | 93   | 59  | 92   | 64                               | 89   | 68  | 98   | 68  | 87   | 60  | 68   | 50  | 42   | 29  |  |
| 10                                     | 54   | 33  | 68   | 33  | 59   | 29  | 59   | 45  | 86   | 56  | 98   | 64  | 92   | 64                               | 90   | 63  | 96   | 67  | 86   | 59  | 66   | 40  | 52   | 25  |  |
| 11                                     | 56   | 32  | 71   | 39  | 73   | 35  | 66   | 39  | 90   | 56  | 101  | 65  | 93   | 66                               | 92   | 65  | 93   | 68  | 73   | 60  | 68   | 43  | 56   | 28  |  |
| 12                                     | 64   | 37  | 64   | 47  | 77   | 45  | 74   | 42  | 91   | 60  | 103  | 67  | 97   | 67                               | 93   | 65  | 91   | 62  | 66   | 54  | 70   | 45  | 60   | 34  |  |
| 13                                     | 71   | 43  | 65   | 42  | 78   | 46  | 74   | 44  | 84   | 58  | 102  | 69  | 88   | 66                               | 93   | 64  | 70   | 64  | 69   | 50  | 77   | 47  | 64   | 35  |  |
| 14                                     | 71   | 43  | 61   | 33  | 79   | 46  | 79   | 44  | 88   | 53  | 104  | 71  | 87   | 63                               | 91   | 65  | 80   | 57  | 72   | 47  | 77   | 45  | 53   | 33  |  |
| 15                                     | 71   | 40  | 67   | 34  | 80   | 48  | 80   | 45  | 89   | 57  | 100  | 70  | 86   | 66                               | 87   | 65  | 84   | 56  | 68   | 49  | 75   | 51  | 55   | 28  |  |
| 16                                     | 75   | 47  | 70   | 39  | 83   | 51  | 84   | 49  | 89   | 59  | 100  | 72  | 90   | 63                               | 92   | 64  | 84   | 62  | 76   | 48  | 71   | 47  | 61   | 33  |  |
| 17                                     | 71   | 48  | 59   | 41  | 83   | 52  | 84   | 49  | 81   | 64  | 96   | 68  | 89   | 66                               | 94   | 67  | 77   | 58  | 77   | 45  | 64   | 49  | 66   | 38  |  |
| 18                                     | 65   | 38  | 56   | 32  | 78   | 50  | 80   | 50  | 88   | 54  | 99   | 66  | 89   | 65                               | 92   | 68  | 80   | 55  | 79   | 54  | 67   | 51  | 62   | 38  |  |
| 19                                     | 71   | 39  | 69   | 34  | 71   | 56  | 75   | 55  | 80   | 59  | 103  | 67  | 84   | 63                               | 86   | 66  | 78   | 53  | 76   | 54  | 68   | 45  | 59   | 36  |  |
| 20                                     | 70   | 44  | 46   | 38  | 60   | 49  | 74   | 42  | 74   | 39  | 104  | 70  | 81   | 60                               | 89   | 63  | 77   | 55  | 76   | 54  | 68   | 46  | 60   | 33  |  |
| 21                                     | 67   | 49  | 55   | 25  | 64   | 43  | 73   | 46  | 88   | 46  | 103  | 71  | 85   | 64                               | 87   | 65  | 77   | 56  | 75   | 57  | 74   | 48  | 66   | 35  |  |
| 22                                     | 58   | 34  | 71   | 32  | 66   | 42  | 83   | 49  | 94   | 54  | 106  | 69  | 93   | 65                               | 89   | 60  | 70   | 57  | 65   | 49  | 66   | 56  | 67   | 38  |  |
| 23                                     | 55   | 30  | 66   | 31  | 68   | 42  | 86   | 57  | 93   | 60  | 105  | 74  | 92   | 67                               | 85   | 58  | 70   | 55  | 72   | 49  | 58   | 40  | 49   | 18  |  |
| 24                                     | 51   | 33  | 61   | 33  | 69   | 40  | 88   | 65  | 91   | 59  | 103  | 75  | 98   | 67                               | 87   | 60  | 70   | 53  | 72   | 47  | 59   | 37  | 42   | 16  |  |
| 25                                     | 58   | 30  | 64   | 30  | 73   | 42  | 81   | 61  | 94   | 57  | 103  | 70  | 100  | 70                               | 88   | 60  | 76   | 57  | 75   | 49  | 62   | 35  | 38   | 26  |  |
| 26                                     | 60   | 35  | 73   | 45  | 73   | 46  | 85   | 54  | 100  | 62  | 103  | 68  | 100  | 72                               | 92   | 62  | 78   | 56  | 77   | 53  | 72   | 40  | 43   | 30  |  |
| 27                                     | 48   | 33  | 74   | 40  | 74   | 48  | 83   | 49  | 100  | 67  | 104  | 69  | 95   | 68                               | 90   | 62  | 80   | 55  | 64   | 47  | 68   | 43  | 51   | 26  |  |
| 28                                     | 56   | 27  | 75   | 43  | 73   | 40  | 80   | 53  | 95   | 67  | 105  | 71  | 97   | 67                               | 91   | 63  | 81   | 56  | 68   | 44  | 65   | 40  | 60   | 33  |  |
| 29                                     | 62   | 31  |      |     | 79   | 44  | 81   | 49  | 93   | 64  | 103  | 73  | 92   | 67                               | 95   | 65  | 86   | 60  | 53   | 42  | 56   | 31  | 49   | 31  |  |
| 30                                     | 65   | 38  |      |     | 82   | 50  | 81   | 50  | 87   | 56  | 101  | 70  | 89   | 65                               | 93   | 64  | 87   | 61  | 48   | 38  | 59   | 31  | 46   | 29  |  |
| 31                                     | 67   | 38  |      |     | 73   | 54  |      |     | 86   | 53  |      |     | 94   | 70                               | 97   | 66  |      |     | 62   | 36  |      |     | 49   | 29  |  |
| AV.                                    | 61   | 38  | 63   | 35  | 72   | 45  | 78   | 48  | 88   | 56  | 99   | 67  | 91   | 66                               | 90   | 64  | 84   | 60  | 74   | 53  | 66   | 43  | 55   | 33  |  |
| MEAN                                   | 49.1 |     | 49.0 |     | 58.3 |     | 63.1 |     | 71.9 |     | 82.8 |     | 78.7 |                                  | 76.9 |     | 72.0 |     | 63.5 |     | 54.9 |     | 44.1 |     |  |
| STA AV                                 | 59   | 35  | 61   | 37  | 67   | 41  | 75   | 45  | 84   | 53  | 92   | 62  | 93   | 67                               | 89   | 65  | 86   | 60  | 78   | 52  | 67   | 43  | 59   | 37  |  |

NOTES: STA AV values are based on 11 yr (1964-1974) record period.

| 1974 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-1 |       |       |       |      |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.50E | 0.0 T | 0.0   | 0.0   | 0.0   |
| 2  | 0.11S | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.25E | 0.24E | 0.52E | 0.0   | 0.0 E | 0.0   |
| 3  | 0.01E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.26E | 0.05E | 0.14E | 0.0   | 0.0   | 0.0   |
| 4  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.17E | 0.02  | 0.0   | 0.0   | 0.0 T |
| 5  | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.40E | 0.0 T | 0.0   | 0.0   | 0.13E |
| 6  | 0.05E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.01E | 0.0   | 0.15E | 0.06E | 0.0   | 0.0   |
| 7  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.28E | 0.0   | 0.0   | 0.03E | 0.0   | 0.0   |
| 8  | 0.38E | 0.0   | 0.01E | 0.0  | 0.05E | 0.0   | 0.12E | 0.0   | 0.0   | 0.0 T | 0.0 E | 0.0   |
| 9  | 0.55E | 0.0   | 0.13E | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0 E | 0.02E | 0.0   | 0.0   | 0.0   |
| 10   | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   |
| 12   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.17E | 0.34E | 0.0   | 0.0   |
| 13   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 E | 0.33E | 0.31E | 0.0 T | 0.0 E | 0.0   | 0.0   |
| 14   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.31E | 0.23E | 0.04E | 0.0   | 0.0   | 0.0   |
| 15   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.07E | 0.11E | 0.0 T | 0.0   | 0.0   | 0.0   |
| 16   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.22E | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   |
| 17   | 0.0   | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.03  | 0.0   | 0.0 E | 0.0   | 0.0   | 0.0   |
| 18   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.27E | 0.37E | 0.06E | 0.0   | 0.0   | 0.0   |
| 19   | 0.0   | 0.0   | 0.07E | 0.0  | 0.0   | 0.0   | 0.48E | 0.22E | 0.04E | 0.0   | 0.0   | 0.0   |
| 20   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.17E | 0.0   | 0.07E | 0.0   | 0.0   | 0.0   |
| 21   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.01  | 0.0   | 0.01E | 0.14E | 0.0   | 0.0   |
| 22   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.08E | 0.04E | 0.29E | 0.01E | 0.0 S |
| 23   | 0.0   | 0.0   | 0.03E | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0 E | 0.03E | 0.06  | 0.0   | 0.01E |
| 24   | 0.0   | 0.0   | 0.0 E | 0.0  | 0.0   | 0.01E | 0.0   | 0.03E | 0.52E | 0.0   | 0.0   | 0.0   |
| 25   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.02E | 0.0   | 0.01E | 0.01E | 0.0   | 0.0   | 0.02S |
| 26   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.16E | 0.09E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.03S |
| 27   | 0.08S | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.14E | 0.0   | 0.0 E | 0.01E | 0.0   | 0.0   |
| 28   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.72E | 0.0   | 0.0 T | 0.0 E | 0.0 T | 0.0   |
| 29   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.16E | 0.0   | 0.0   | 0.72E | 0.0   | 0.0   |
| 30   | 0.0 E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.10E | 0.0   | 0.0   | 0.19E | 0.0   | 0.0   |
| 31   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 E | 0.0   | 0.0   |
| TOTAL  | 1.21  | 0.0   | 0.24  | 0.0  | 0.05  | 0.19  | 4.02  | 2.72  | 1.84  | 1.86  | 0.01  | 0.19  |
| STA AV   | 0.39  | 0.52  | 0.79  | 0.15 | 0.13  | 0.42  | 3.27  | 3.40  | 1.15  | 0.90  | 0.30  | 0.46  |

NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV are for 7 yr only (1968-74).

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-1 |     |     |     |     |     |     |        |         |         |     |     |     |
|--|-----|-----|-----|-----|-----|-----|--------|---------|---------|-----|-----|-----|
| Day  | Jan | Feb | Mar | Apr | May | Jun | Jul    | Aug     | Sep     | Oct | Nov | Dec |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 1.550E  | 0.0     | 0.0 | 0.0 | 0.0 |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.775  | 0.0     | 15.813E | 0.0 | 0.0 | 0.0 |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 2.946E  | 0.0 | 0.0 | 0.0 |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 37.673E | 0.0     | 0.0 | 0.0 | 0.0 |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.310E | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.155   | 0.0     | 0.0 | 0.0 | 0.0 |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.155E  | 0.0     | 0.0 | 0.0 | 0.0 |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.775E  | 0.0     | 0.0 | 0.0 | 0.0 |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 14.263E | 0.0     | 0.0 | 0.0 | 0.0 |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 6.666E  | 0.0     | 0.0 | 0.0 | 0.0 |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.946E | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.620E  | 0.0     | 0.0 | 0.0 | 0.0 |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 14.263E | 0.0 | 0.0 | 0.0 |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0 E   | 0.0 | 0.0 | 0.0 |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.155  | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.612  | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.457E | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0     | 0.0     | 0.0 | 0.0 | 0.0 |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7502 | 1.9954  | 1.1007  | 0.0 | 0.0 | 0.0 |
| INCHES   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.015  | 0.040   | 0.021   | 0.0 | 0.0 | 0.0 |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.027  | 0.074   | 0.007   | 0.0 | 0.0 | 0.0 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV are for 8 yr only (1966, 1968-74). Previously published data are being reevaluated.

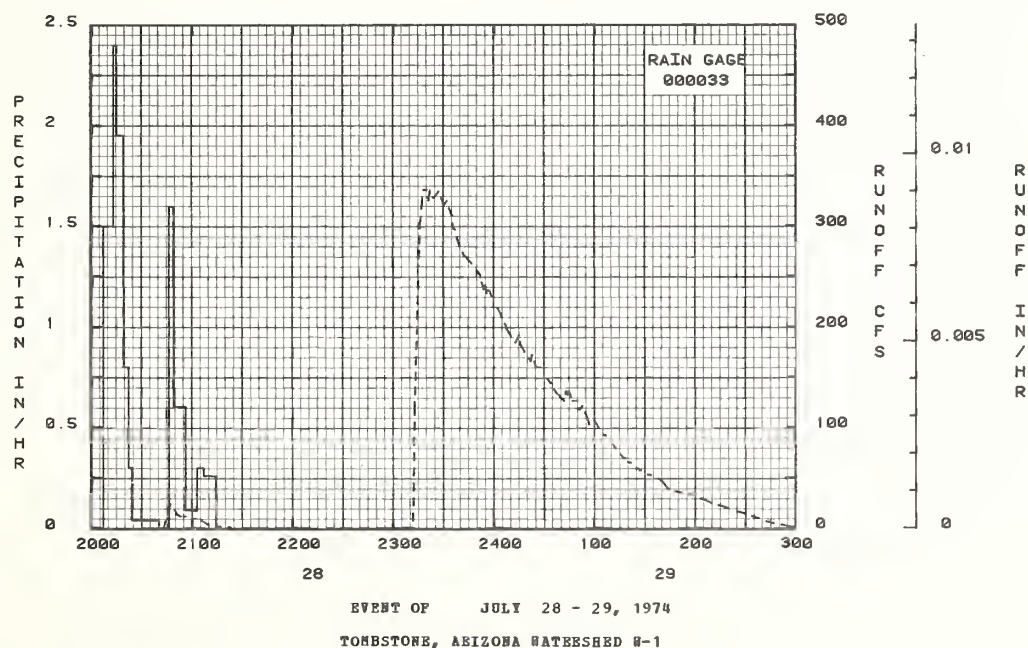
| 1974 SELECTED RUNOFF EVENT  |                      |                    | TOMBSTONE, ARIZONA WATERSHED W-1 |                   |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|----------------------------------|-------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                         |                   |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day    | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF JULY 28 - 29, 1974   |                      |                    |                                  |                   |                      |                  |                |                |               |                  |
| 7-28  | RG 000033<br>0.0     | 0.0                | 7-28                             | RG 000033<br>2007 | 0.0                  | 0.0              | 7-28           | 2035           | 0.0           | 0.0              |
|   |                      |                    |                                  | 2013              | 1.5000               | 0.15             |                | 2040           | 0.095         | 0.0              |
|   |                      |                    |                                  | 2015              | 2.4000               | 0.23             |                | 2043           | 0.040         | 0.0              |
|   |                      |                    |                                  | 2019              | 1.9500               | 0.36             |                | 2047           | 24.616        | 0.0              |
|   |                      |                    |                                  | 2022              | 0.8000               | 0.40             |                | 2051           | 13.477        | 0.0001           |
| WATERSHED CONDITIONS:<br>65% of area in desert shrubs<br>(Whitethorn, creosotebush and<br>tarbush) with 23% cover and<br>2% grass cover. 35% is in<br>grassland with approximately<br>20% grass cover (crown<br>spread) and 5% shrub cover. |                      |                    |                                  | 2024              | 0.3000               | 0.41             |                | 2053           | 11.557        | 0.0001           |
|   |                      |                    |                                  | 2040              | 0.0375               | 0.42             |                | 2055           | 11.482        | 0.0001           |
|   |                      |                    |                                  | 2046              | 0.0                  | 0.42             |                | 2056           | 11.929        | 0.0001           |
|   |                      |                    |                                  | 2049              | 1.6000               | 0.50             |                | 2100           | 8.703         | 0.0001           |
|   |                      |                    |                                  | 2054              | 0.6000               | 0.55             |                | 2102           | 9.648         | 0.0001           |
|   |                      |                    |                                  | 2056              | 0.6000               | 0.57             |                | 2105           | 7.728         | 0.0001           |
|   |                      |                    |                                  | 2103              | 0.0857               | 0.58             |                | 2110           | 2.984         | 0.0001           |
|   |                      |                    |                                  | 2107              | 0.3000               | 0.60             |                | 2115           | 1.192         | 0.0001           |
|   |                      |                    |                                  | 2114              | 0.2571               | 0.63             |                | 2117           | 1.109         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2122           | 0.811         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2123           | 0.435         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2135           | 0.051         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2136           | 0.028         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2140           | 0.019         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2141           | 0.007         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2155           | 0.002         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2157           | 0.0           | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2204           | 0.0           | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2207           | 0.011         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2211           | 0.037         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2213           | 0.037         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2215           | 0.037         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2220           | 0.023         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2230           | 0.006         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2240           | 0.005         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2245           | 0.004         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2247           | 0.002         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2301           | 0.001         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2304           | 0.0           | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2306           | 0.034         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2307           | 0.051         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2312           | 0.047         | 0.0001           |
|   |                      |                    |                                  |                   |                      |                  |                | 2313           | 125.464       | 0.0002           |
|   |                      |                    |                                  |                   |                      |                  |                | 2316           | 302.347       | 0.0005           |
|   |                      |                    |                                  |                   |                      |                  |                | 2317           | 320.766       | 0.0006           |
|   |                      |                    |                                  |                   |                      |                  |                | 2318           | 336.318       | 0.0007           |
|   |                      |                    |                                  |                   |                      |                  |                | 2320           | 336.318       | 0.0010           |
|   |                      |                    |                                  |                   |                      |                  |                | 2321           | 324.597       | 0.0012           |
|   |                      |                    |                                  |                   |                      |                  |                | 2322           | 335.834       | 0.0013           |
|   |                      |                    |                                  |                   |                      |                  |                | 2324           | 327.983       | 0.0016           |
|   |                      |                    |                                  |                   |                      |                  |                | 2327           | 334.830       | 0.0021           |
|   |                      |                    |                                  |                   |                      |                  |                | 2330           | 320.766       | 0.0025           |
|   |                      |                    |                                  |                   |                      |                  |                | 2332           | 325.082       | 0.0028           |
|   |                      |                    |                                  |                   |                      |                  |                | 2335           | 310.310       | 0.0032           |
|   |                      |                    |                                  |                   |                      |                  |                | 2336           | 297.250       | 0.0034           |
|   |                      |                    |                                  |                   |                      |                  |                | 2337           | 296.356       | 0.0035           |
|   |                      |                    |                                  |                   |                      |                  |                | 2338           | 287.241       | 0.0036           |
|   |                      |                    |                                  |                   |                      |                  |                | 2342           | 271.241       | 0.0041           |
|   |                      |                    |                                  |                   |                      |                  |                | 2347           | 262.610       | 0.0047           |
|   |                      |                    |                                  |                   |                      |                  |                | 2351           | 252.825       | 0.0052           |
|   |                      |                    |                                  |                   |                      |                  |                | 2352           | 251.151       | 0.0053           |
|   |                      |                    |                                  |                   |                      |                  |                | 2354           | 236.342       | 0.0055           |
|   |                      |                    |                                  |                   |                      |                  |                | 2355           | 241.216       | 0.0056           |
|   |                      |                    |                                  |                   |                      |                  |                | 2356           | 233.105       | 0.0057           |
|   |                      |                    |                                  |                   |                      |                  |                | 2357           | 236.342       | 0.0058           |
|   |                      |                    |                                  |                   |                      |                  |                | 2400           | 224.771       | 0.0062           |
|   |                      |                    |                                  |                   |                      |                  | 7-29           | 5              | 210.074       | 0.0066           |
|   |                      |                    |                                  |                   |                      |                  |                | 8              | 196.753       | 0.0069           |
|   |                      |                    |                                  |                   |                      |                  |                | 13             | 184.028       | 0.0073           |
|   |                      |                    |                                  |                   |                      |                  |                | 15             | 192.102       | 0.0075           |
|   |                      |                    |                                  |                   |                      |                  |                | 16             | 181.275       | 0.0076           |
|   |                      |                    |                                  |                   |                      |                  |                | 22             | 165.536       | 0.0081           |
|   |                      |                    |                                  |                   |                      |                  |                | 23             | 172.457       | 0.0081           |
|   |                      |                    |                                  |                   |                      |                  |                | 25             | 160.029       | 0.0083           |
|   |                      |                    |                                  |                   |                      |                  |                | 30             | 158.095       | 0.0086           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



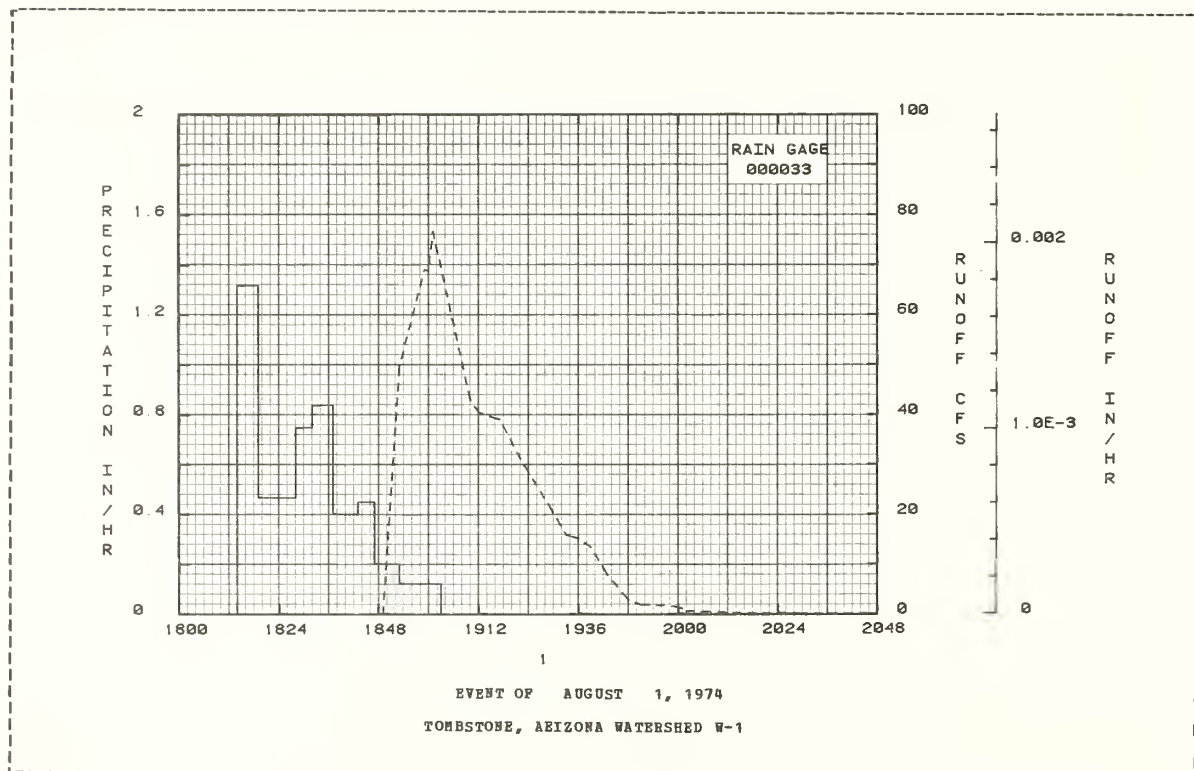
| 1974      SELECTED RUNOFF EVENT                    |          |          | TOMBSTONE, ARIZONA WATERSHED #1 |        |           |          |        |        |         |          |
|--|----------|----------|---------------------------------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS                              |          |          | RAINFALL                        |        |           | RUNOFF   |        |        |         |          |
| Date   | Rainfall | Runoff   | Date                            | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day                          | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF      JULY    28 - 29, 1974    (CONTINUED) |          |          |                                 |        |           |          |        |        |         |          |
|  |          |          |                                 |        |           |          | 7-29   | 31     | 149.946 | 0.0087   |
|  |          |          |                                 |        |           |          |        | 34     | 143.807 | 0.0089   |
|  |          |          |                                 |        |           |          |        | 37     | 134.877 | 0.0091   |
|  |          |          |                                 |        |           |          |        | 42     | 126.022 | 0.0094   |
|  |          |          |                                 |        |           |          |        | 43     | 136.068 | 0.0094   |
|  |          |          |                                 |        |           |          |        | 44     | 132.273 | 0.0095   |
|  |          |          |                                 |        |           |          |        | 45     | 136.068 | 0.0096   |
|  |          |          |                                 |        |           |          |        | 46     | 129.408 | 0.0096   |
|  |          |          |                                 |        |           |          |        | 47     | 126.022 | 0.0097   |
|  |          |          |                                 |        |           |          |        | 50     | 126.022 | 0.0099   |
|  |          |          |                                 |        |           |          |        | 51     | 117.725 | 0.0099   |
|  |          |          |                                 |        |           |          |        | 53     | 121.817 | 0.0100   |
|  |          |          |                                 |        |           |          |        | 57     | 102.842 | 0.0102   |
|  |          |          |                                 |        |           |          |        | 100    | 106.413 | 0.0104   |
|  |          |          |                                 |        |           |          |        | 105    | 92.833  | 0.0106   |
|  |          |          |                                 |        |           |          |        | 107    | 91.642  | 0.0107   |
|  |          |          |                                 |        |           |          |        | 112    | 80.777  | 0.0109   |
|  |          |          |                                 |        |           |          |        | 113    | 79.215  | 0.0109   |
|  |          |          |                                 |        |           |          |        | 117    | 69.429  | 0.0110   |
|  |          |          |                                 |        |           |          |        | 119    | 68.797  | 0.0111   |
|  |          |          |                                 |        |           |          |        | 120    | 65.560  | 0.0111   |
|  |          |          |                                 |        |           |          |        | 122    | 64.592  | 0.0112   |
|  |          |          |                                 |        |           |          |        | 125    | 59.197  | 0.0113   |
|  |          |          |                                 |        |           |          |        | 126    | 59.197  | 0.0113   |
|  |          |          |                                 |        |           |          |        | 127    | 56.779  | 0.0113   |
|  |          |          |                                 |        |           |          |        | 128    | 56.965  | 0.0113   |
|  |          |          |                                 |        |           |          |        | 132    | 52.835  | 0.0114   |
|  |          |          |                                 |        |           |          |        | 134    | 52.277  | 0.0115   |
|  |          |          |                                 |        |           |          |        | 140    | 47.179  | 0.0116   |
|  |          |          |                                 |        |           |          |        | 144    | 38.547  | 0.0117   |
|  |          |          |                                 |        |           |          |        | 150    | 35.388  | 0.0118   |
|  |          |          |                                 |        |           |          |        | 152    | 34.826  | 0.0118   |
|  |          |          |                                 |        |           |          |        | 156    | 32.765  | 0.0119   |
|  |          |          |                                 |        |           |          |        | 200    | 32.903  | 0.0119   |
|  |          |          |                                 |        |           |          |        | 204    | 28.780  | 0.0120   |
|  |          |          |                                 |        |           |          |        | 210    | 24.505  | 0.0121   |
|  |          |          |                                 |        |           |          |        | 217    | 20.699  | 0.0121   |
|  |          |          |                                 |        |           |          |        | 247    | 4.108   | 0.0123   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



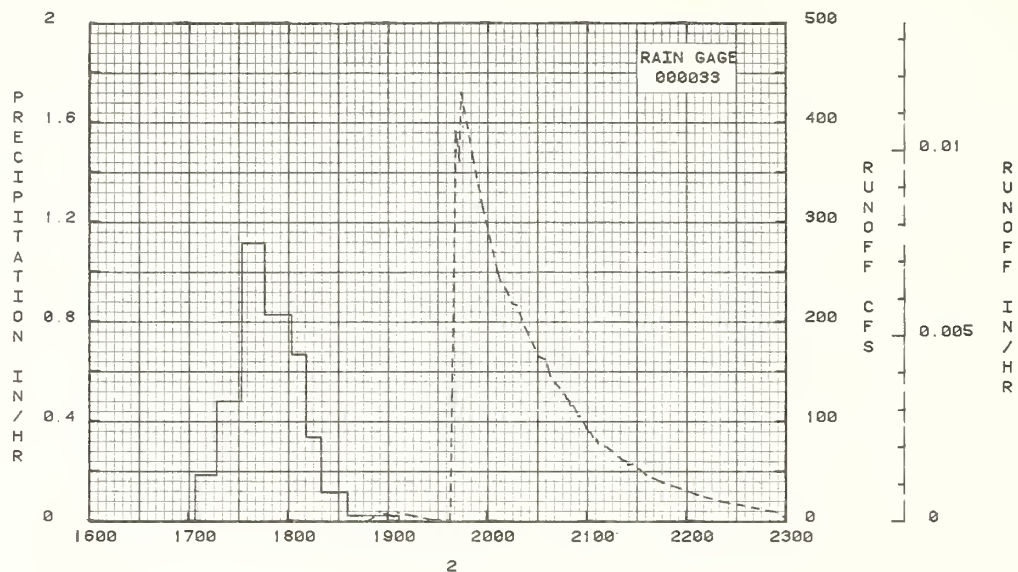
| 1974 SELECTED RUNOFF EVENT  |                      |                    | TOMBSTONE, ARIZONA WATERSHED W-1 |                |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                         |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Eunoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF AUGUST 1, 1974   |                      |                    |                                  |                |                      |                  |                |                |               |                  |
| RG 000033   |                      |                    | EG 000033                        |                |                      |                  |                |                |               |                  |
| 8- 1  | 0.0                  | 0.0                | 8- 1                             | 1814           | 0.0                  | 0.0              | 8- 1           | 1849           | 0.0           | 0.0              |
|   |                      |                    |                                  | 1819           | 1.3200               | 0.11             |                | 1853           | 49.858        | 0.0001           |
|   |                      |                    |                                  | 1828           | 0.4667               | 0.18             |                | 1859           | 69.020        | 0.0002           |
|   |                      |                    |                                  | 1832           | 0.7500               | 0.23             |                | 1900           | 68.797        | 0.0003           |
|   |                      |                    |                                  | 1837           | 0.8400               | 0.30             |                | 1901           | 76.796        | 0.0003           |
| WATERSHED CONDITIONS:<br>65% of area in desert shrubs<br>(whitethorn, creosotebush and<br>tarbush) with 23% cover and<br>2% grass cover. 35% is in<br>grassland with approximately<br>20% grass cover (crown<br>spread) and 5% shrub cover. |                      |                    |                                  | 1843           | 0.4000               | 0.34             |                | 1910           | 42.826        | 0.0005           |
|   |                      |                    |                                  | 1847           | 0.4500               | 0.37             |                | 1912           | 40.370        | 0.0006           |
|   |                      |                    |                                  | 1853           | 0.2000               | 0.39             |                | 1913           | 40.072        | 0.0006           |
|   |                      |                    |                                  | 1903           | 0.1200               | 0.41             |                | 1916           | 39.142        | 0.0007           |
|   |                      |                    |                                  |                |                      |                  |                | 1917           | 38.993        | 0.0007           |
|   |                      |                    |                                  |                |                      |                  |                | 1923           | 29.632        | 0.0008           |
|   |                      |                    |                                  |                |                      |                  |                | 1929           | 21.618        | 0.0008           |
|   |                      |                    |                                  |                |                      |                  |                | 1933           | 15.813        | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1936           | 15.125        | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1939           | 13.317        | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1943           | 7.661         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1948           | 2.709         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1951           | 1.783         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1953           | 1.757         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 1959           | 1.483         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 2001           | 0.973         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 2002           | 0.510         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 2006           | 0.388         | 0.0009           |
|   |                      |                    |                                  |                |                      |                  |                | 2015           | 0.089         | 0.0010           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



| 1974  |                  |          | TOMBSTONE, ARIZONA WATERSHED #1 |                   |           |          |        |        |         |          |
|---|------------------|----------|---------------------------------|-------------------|-----------|----------|--------|--------|---------|----------|
| SELECTED RUNOFF EVENT   |                  |          |                                 |                   |           |          |        |        |         |          |
| ANTECEDENT CONDITIONS   |                  |          | RAINFALL                        |                   |           | RUNOFF   |        |        |         |          |
| Date  | Rainfall         | Rnoff    | Date                            | Time              | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day  | (inches)         | (inches) | Mo-Day                          | of Day            | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF SEPTEMBER 2, 1974  |                  |          |                                 |                   |           |          |        |        |         |          |
| 9- 2  | RG 000033<br>0.0 | 0.0      | 9- 2                            | RG 000033<br>1704 | 0.0       | 0.0      | 9- 2   | 1848   | 0.0     | 0.0      |
|   |                  |          |                                 | 1717              | 0.1846    | 0.04     |        | 1852   | 4.022   | 0.0      |
|   |                  |          |                                 | 1732              | 0.4800    | 0.16     |        | 1855   | 9.443   | 0.0      |
|   |                  |          |                                 | 1746              | 1.1143    | 0.42     |        | 1856   | 9.373   | 0.0      |
|   |                  |          |                                 | 1802              | 0.8250    | 0.64     |        | 1858   | 6.824   | 0.0      |
| WATERSHED CONDITIONS:<br>65% of area in desert shrnbs<br>(whitethorn, creosotebush and<br>tarbush) with 23% cover and<br>2% grass cover. 35% is in<br>grassland with approximately<br>20% grass cover (crown<br>spread) and 5% shrub cover. |                  |          |                                 | 1811              | 0.6667    | 0.74     |        | 1904   | 4.234   | 0.0001   |
|   |                  |          |                                 | 1820              | 0.3333    | 0.79     |        | 1906   | 8.446   | 0.0001   |
|   |                  |          |                                 | 1836              | 0.1125    | 0.82     |        | 1907   | 8.316   | 0.0001   |
|   |                  |          |                                 | 1907              | 0.0194    | 0.83     |        | 1912   | 5.983   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1918   | 3.817   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1922   | 2.743   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1926   | 1.192   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1927   | 1.011   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1932   | 0.593   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1938   | 0.147   | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1939   | 125.166 | 0.0001   |
|   |                  |          |                                 |                   |           |          |        | 1941   | 390.305 | 0.0004   |
|   |                  |          |                                 |                   |           |          |        | 1943   | 360.428 | 0.0007   |
|   |                  |          |                                 |                   |           |          |        | 1944   | 430.118 | 0.0009   |
|   |                  |          |                                 |                   |           |          |        | 1951   | 366.083 | 0.0021   |
|   |                  |          |                                 |                   |           |          |        | 1957   | 315.519 | 0.0030   |
|   |                  |          |                                 |                   |           |          |        | 2006   | 251.560 | 0.0042   |
|   |                  |          |                                 |                   |           |          |        | 2008   | 239.579 | 0.0044   |
|   |                  |          |                                 |                   |           |          |        | 2011   | 232.696 | 0.0047   |
|   |                  |          |                                 |                   |           |          |        | 2015   | 217.366 | 0.0051   |
|   |                  |          |                                 |                   |           |          |        | 2018   | 215.804 | 0.0054   |
|   |                  |          |                                 |                   |           |          |        | 2023   | 192.809 | 0.0059   |
|   |                  |          |                                 |                   |           |          |        | 2031   | 164.532 | 0.0065   |
|   |                  |          |                                 |                   |           |          |        | 2035   | 161.295 | 0.0068   |
|   |                  |          |                                 |                   |           |          |        | 2036   | 156.830 | 0.0069   |
|   |                  |          |                                 |                   |           |          |        | 2038   | 144.402 | 0.0070   |
|   |                  |          |                                 |                   |           |          |        | 2047   | 126.022 | 0.0076   |
|   |                  |          |                                 |                   |           |          |        | 2048   | 121.817 | 0.0076   |
|   |                  |          |                                 |                   |           |          |        | 2049   | 122.115 | 0.0077   |
|   |                  |          |                                 |                   |           |          |        | 2050   | 115.306 | 0.0077   |
|   |                  |          |                                 |                   |           |          |        | 2052   | 115.566 | 0.0078   |
|   |                  |          |                                 |                   |           |          |        | 2054   | 108.460 | 0.0079   |
|   |                  |          |                                 |                   |           |          |        | 2055   | 105.111 | 0.0080   |
|   |                  |          |                                 |                   |           |          |        | 2056   | 105.111 | 0.0080   |
|   |                  |          |                                 |                   |           |          |        | 2101   | 89.038  | 0.0082   |
|   |                  |          |                                 |                   |           |          |        | 2102   | 89.038  | 0.0083   |
|   |                  |          |                                 |                   |           |          |        | 2104   | 83.494  | 0.0084   |
|   |                  |          |                                 |                   |           |          |        | 2106   | 81.894  | 0.0084   |
|   |                  |          |                                 |                   |           |          |        | 2107   | 77.243  | 0.0085   |
|   |                  |          |                                 |                   |           |          |        | 2112   | 74.229  | 0.0086   |
|   |                  |          |                                 |                   |           |          |        | 2122   | 60.313  | 0.0089   |
|   |                  |          |                                 |                   |           |          |        | 2124   | 59.383  | 0.0090   |
|   |                  |          |                                 |                   |           |          |        | 2125   | 56.593  | 0.0090   |
|   |                  |          |                                 |                   |           |          |        | 2128   | 56.779  | 0.0091   |
|   |                  |          |                                 |                   |           |          |        | 2136   | 46.026  | 0.0093   |
|   |                  |          |                                 |                   |           |          |        | 2147   | 37.542  | 0.0095   |
|   |                  |          |                                 |                   |           |          |        | 2157   | 31.961  | 0.0096   |
|   |                  |          |                                 |                   |           |          |        | 2207   | 26.079  | 0.0098   |
|   |                  |          |                                 |                   |           |          |        | 2222   | 19.121  | 0.0099   |
|   |                  |          |                                 |                   |           |          |        | 2255   | 8.640   | 0.0101   |
|   |                  |          |                                 |                   |           |          |        | 2322   | 2.949   | 0.0102   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



EVENT OF SEPTEMBER 2, 1974  
TOMBSTONE, ARIZONA WATERSHED #1



## TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 05 sec. N.; Long. 110 deg. 05 min. 55 sec. W.

AREA: 29100.00 acres 43.90 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | TOMBSTONE, ARIZONA WATERSHED W-2          |       |       |       |        |       |        |       |      |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|--------|-------|--------|-------|------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov    | Dec   | Annual |       |      |       |
| 1974  | P | 1.19              | 0.0   | 0.21   | 0.0   | 0.05    | 0.20  | 4.06                                      | 2.73  | 1.88  | 1.98  | 0.01   | 0.18  | 12.49  |       |      |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.039                                     | 0.068 | 0.038 | 0.004 | 0.000  | 0.000 | 0.148  |       |      |       |
| STA AV  | P | 0.40              | 0.54  | 0.77   | 0.15  | 0.13    | 0.42  | 3.23                                      | 3.35  | 1.18  | 0.92  | 0.32   | 0.47  | 11.87  |       |      |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.001 | 0.048                                     | 0.085 | 0.014 | 0.001 | 0.000  | 0.000 | 0.149  |       |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |        |       |        |       |      |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |       |       | 2 Days |       | 8 Days |       |      |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |      |       |
| 1974  |   | 9- 2              | 0.029 | 8- 5   | 0.018 | 8- 5    | 0.024 | 7-28                                      | 0.027 | 7-28  | 0.028 | 7-28   | 0.028 | 8-18   | 0.031 | 7-28 | 0.059 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |        |       |        |       |      |       |
|   |   | 7-26              | 0.160 | 7-26   | 0.130 | 7-26    | 0.170 | 7-26                                      | 0.210 | 9- 9  | 0.240 | 9- 9   | 0.240 | 9- 9   | 0.240 | 9- 9 | 0.430 |
|   |   | 1959              |       | 1959   |       | 1969    |       | 1959                                      |       | 1964  |       | 1964   |       | 1964   |       | 1964 |       |

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebush, tarbush and mortonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1954. Monthly totals are Thiessen weighted averages from 69 gages, station averages are for 7 yr only (1968-74). Runoff Data: Records began July 1959, station averages are based on 1966, 1968-74 data. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |      |       |       |       |       |       |       |       |       |       | TOMBSTONE, ARIZONA WATERSHED W-2 |       |       |       |      |       |       |       |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day                               | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |       | Day                              | Jan   | Feb   | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |       |
| 1                                 | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.44E | 0.0 T | 0.0   | 0.0   | 0.0   |       | 1                                | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.44E | 0.0 T | 0.0   | 0.0   | 0.0   |       |
| 2                                 | 0.10E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.23E | 0.28E | 0.63E | 0.0   | 0.0 E | 0.0   | 2                                | 0.10E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.23E | 0.28E | 0.63E | 0.0   | 0.0 E | 0.0   |       |
| 3                                 | 0.01E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.34E | 0.03E | 0.08E | 0.0   | 0.0   | 0.0   | 3                                | 0.01E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.34E | 0.03E | 0.08E | 0.0   | 0.0   | 0.0   |       |
| 4                                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.17E | 0.03  | 0.0   | 0.0   | 0.0 T | 4                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.17E | 0.03  | 0.0   | 0.0   | 0.0 T |       |
| 5                                 | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.38E | 0.0 T | 0.0   | 0.0   | 0.0   | 5                                | 0.03E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.38E | 0.0 T | 0.0   | 0.0   | 0.0   | 0.13E |
| 6                                 | 0.05E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.19E | 0.07E | 0.0   | 0.0   | 6                                | 0.05E | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.02E | 0.0   | 0.19E | 0.07E | 0.0   | 0.0   |       |
| 7                                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.21E | 0.0   | 0.0   | 0.04E | 0.0   | 0.0   | 7                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.21E | 0.0   | 0.0   | 0.04E | 0.0   | 0.0   |       |
| 8                                 | 0.39E | 0.0   | 0.0 E | 0.0  | 0.05E | 0.0   | 0.0   | 0.13E | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 8                                | 0.39E | 0.0   | 0.0 E | 0.0  | 0.05E | 0.0   | 0.13E | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   |       |
| 9                                 | 0.53E | 0.0   | 0.12E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 E | 0.0 E | 0.0   | 0.0   | 0.0   | 9                                | 0.53E | 0.0   | 0.12E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 E | 0.0 E | 0.0   | 0.0   | 0.0   |       |
| 10                                | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 10                               | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| 11                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   | 0.0   | 11                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   | 0.0   | 0.0   |       |
| 12                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.21E | 0.38E | 0.0   | 0.0   | 12                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.21E | 0.38E | 0.0   | 0.0   | 0.0   |       |
| 13                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 E | 0.41E | 0.23E | 0.0 T | 0.0 E | 0.0   | 0.0   | 13                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 E | 0.41E | 0.23E | 0.0 T | 0.0 E | 0.0   | 0.0   |       |
| 14                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.26E | 0.30E | 0.05E | 0.0   | 0.0   | 0.0   | 14                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.26E | 0.30E | 0.05E | 0.0   | 0.0   | 0.0   |       |
| 15                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.04E | 0.13E | 0.0   | 0.0   | 0.0   | 0.0   | 15                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.04E | 0.13E | 0.0   | 0.0   | 0.0   | 0.0   |       |
| 16                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.26E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 16                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.26E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   |       |
| 17                                | 0.0   | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.04  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 17                               | 0.0   | 0.0 E | 0.0   | 0.0  | 0.0   | 0.0   | 0.04  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   |       |
| 18                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.29E | 0.43E | 0.02E | 0.0   | 0.0   | 0.0   | 18                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.29E | 0.43E | 0.02E | 0.0   | 0.0   | 0.0   |       |
| 19                                | 0.0   | 0.0   | 0.05E | 0.0  | 0.0   | 0.0   | 0.0   | 0.46E | 0.28E | 0.03E | 0.0   | 0.0   | 0.0   | 19                               | 0.0   | 0.0   | 0.05E | 0.0  | 0.0   | 0.0   | 0.46E | 0.28E | 0.03E | 0.0   | 0.0   | 0.0   |       |
| 20                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.12E | 0.0   | 0.08E | 0.0   | 0.0   | 0.0   | 20                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.12E | 0.0   | 0.08E | 0.0   | 0.0   | 0.0   |       |
| 21                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 E | 0.13E | 0.0   | 0.0   | 21                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 E | 0.13E | 0.0   | 0.0   |       |
| 22                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.03E | 0.02E | 0.35E | 0.01E | 0.0   | 22                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.03E | 0.02E | 0.35E | 0.01E | 0.0   |       |
| 23                                | 0.0   | 0.0   | 0.04E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.03E | 0.07  | 0.0   | 0.01E | 23                               | 0.0   | 0.0   | 0.04E | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.03E | 0.07  | 0.0   | 0.01E |       |
| 24                                | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.01  | 0.0   | 0.02E | 0.49E | 0.0   | 0.0   | 0.0   | 24                               | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.01  | 0.0   | 0.02E | 0.49E | 0.0   | 0.0   |       |
| 25                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.02E | 0.0   | 0.01  | 0.02E | 0.0   | 0.0   | 0.01S | 25                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.02E | 0.0   | 0.01  | 0.02E | 0.0   | 0.01S |       |
| 26                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.17E | 0.08E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.03E | 26                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.17E | 0.08E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.03E |       |
| 27                                | 0.08S | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.17E | 0.0   | 0.0 T | 0.01E | 0.0   | 0.0   | 27                               | 0.08S | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.17E | 0.0   | 0.0 T | 0.01E | 0.0   | 0.0   |
| 28                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.76E | 0.0   | 0.0 T | 0.0 E | 0.0   | 0.0   | 28                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.76E | 0.0   | 0.0 T | 0.0 E | 0.0   | 0.0   |
| 29                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.15E | 0.0   | 0.0   | 0.72E | 0.0   | 0.0   | 29                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.15E | 0.0   | 0.0   | 0.72E | 0.0   | 0.0   |
| 30                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.09E | 0.0   | 0.0   | 0.19E | 0.0   | 0.0   | 30                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.09E | 0.0   | 0.0   | 0.19E | 0.0   | 0.0   |
| 31                                | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 E | 0.0   | 0.0   | 31                               | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 E | 0.0   | 0.0   |       |
| TOTAL                             | 1.19  | 0.0   | 0.21  | 0.0  | 0.05  | 0.20  | 4.06  | 2.73  | 1.88  | 1.98  | 0.01  | 0.18  |       | TOTAL                            | 1.19  | 0.0   | 0.21  | 0.0  | 0.05  | 0.20  | 4.06  | 2.73  | 1.88  | 1.98  | 0.01  | 0.18  |       |
| STA AV                            | 0.40  | 0.54  | 0.77  | 0.15 | 0.13  | 0.42  | 3.23  | 3.35  | 1.18  | 0.92  | 0.32  | 0.47  |       | STA AV                           | 0.40  | 0.54  | 0.77  | 0.15 | 0.13  | 0.42  | 3.23  | 3.35  | 1.18  | 0.92  | 0.32  | 0.47  |       |

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV are for 7 yr only (1968-74).

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-2 |     |     |     |     |     |       |         |         |         |        |        |        |
|--|-----|-----|-----|-----|-----|-------|---------|---------|---------|--------|--------|--------|
| Day  | Jan | Feb | Mar | Apr | May | Jun   | Jul     | Aug     | Sep     | Oct    | Nov    | Dec    |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 3.070   | 0.0     | 0.118  | 0.118  | 0.0    |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 1.417   | 24.556  | 0.0    | 0.0    | 0.0    |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 2.833E  | 0.118   | 0.118   | 0.0    | 0.0    | 0.0    |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.708   | 0.0     | 0.118  | 0.0    | 0.118  |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 31.876E | 0.118   | 0.0    | 0.0    | 0.0    |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0     | 3.542   | 0.118  | 0.0    | 0.0    |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.354   | 0.118   | 0.0     | 0.0    | 0.0    | 0.0    |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.118   | 0.118   | 0.118  | 0.118  | 0.0    |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.118   | 0.0     | 0.118  | 0.0    | 0.0    |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0     | 0.118   | 0.0    | 0.0    | 0.0    |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.771   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.118   | 0.118   | 0.0     | 0.0    | 0.0    | 0.0    |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 5.195E  | 0.0     | 0.0    | 0.0    | 0.0    |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 0.0     | 0.118  | 0.118  | 0.0    |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 E   | 0.0 E   | 0.0     | 0.0    | 0.0    | 0.0    |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 22.313E | 0.0     | 0.0    | 0.0    | 0.0    |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.708E  | 14.167E | 0.118   | 0.0    | 0.0    | 0.0    |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 7.320E  | 0.118E  | 0.0     | 0.0    | 0.0    | 0.118  |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 0.0     | 0.118  | 0.0    | 0.0    |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.354E  | 0.0     | 3.188  | 0.0    | 0.0    |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 0.0     | 0.0    | 0.0    | 0.0    |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 15.348E | 0.0    | 0.0    | 0.0    |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.118E  | 0.0 E   | 0.0    | 0.0    | 0.0    |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 0.236   | 0.0    | 0.118  | 0.0    |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.0 E   | 0.118   | 0.0    | 0.0    | 0.0    |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 25.265E | 0.0 E   | 0.118   | 0.118  | 0.0    | 0.0    |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 7.320E  | 0.0 E   | 0.118   | 0.0    | 0.0    | 0.0    |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 E   | 0.0 E   | 0.118   | 0.0    | 0.0    | 0.0    |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0     | 0.118E  | 0.0     | 0.0    | 0.0    | 0.0    |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.4738  | 2.5821  | 1.4915  | 0.1333 | 0.0157 | 0.0076 |
| INCHES   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.039   | 0.068   | 0.038   | 0.004  | 0.000  | 0.000  |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.001 | 0.048   | 0.085   | 0.014   | 0.001  | 0.000  | 0.000  |

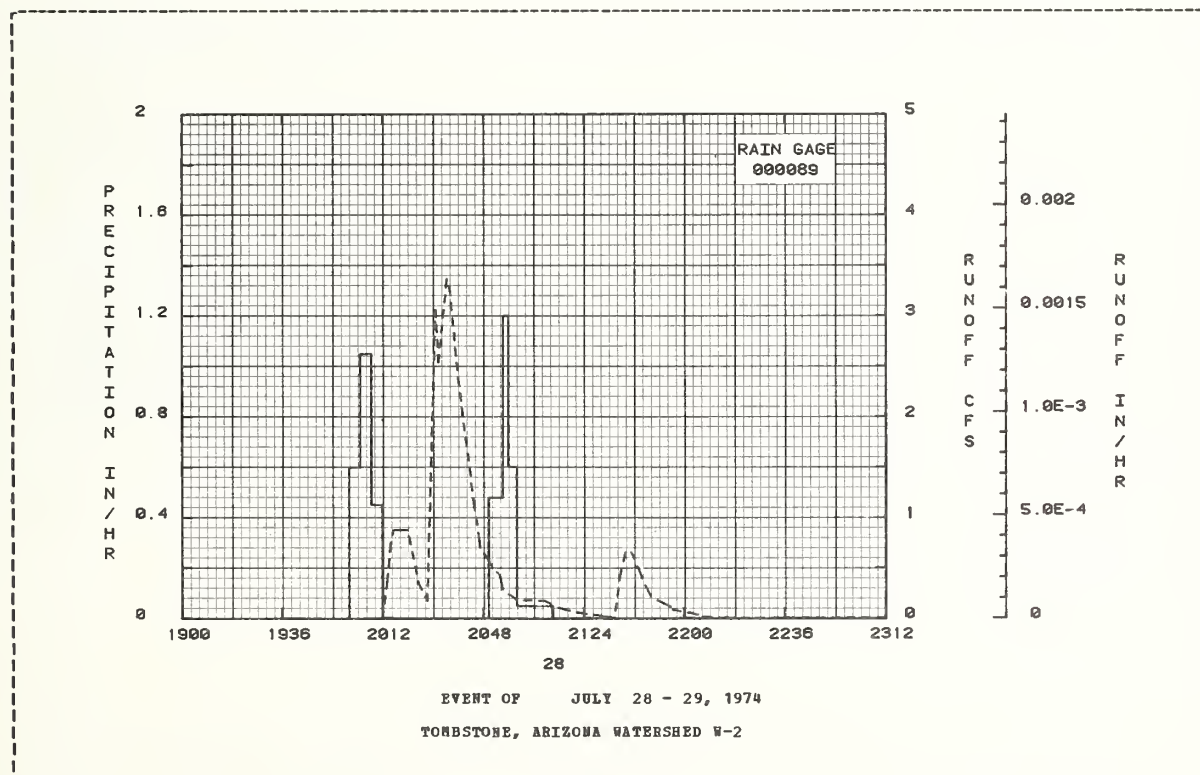
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000847. STA AV are based on 1966, 1968-74 data.

| 1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-2 |          |          |          |        |           |          |        |        |         |          |  |
|---|----------|----------|----------|--------|-----------|----------|--------|--------|---------|----------|--|
| ANTECEDENT CONDITIONS                                       |          |          | RAINFALL |        |           |          |        |        |         |          |  |
| Date  | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |
| EVENT OF JULY 28 - 29, 1974                                 |          |          |          |        |           |          |        |        |         |          |  |
| RG 000083   |          |          |          |        |           |          |        |        |         |          |  |
| 7-28  | 0.0      | 0.0      | 7-28     | 2009   | 0.0       | 0.0      | 7-28   | 2035   | 0.0     | 0.0      |  |
|   |          |          |          | 2013   | 0.6000    | 0.04     |        | 2037   | 0.057   | 0.0      |  |
|   |          |          |          | 2016   | 3.2000    | 0.20     |        | 2043   | 14.470  | 0.0001   |  |
|   |          |          |          | 2018   | 4.5011    | 0.35     |        | 2045   | 38.704  | 0.0001   |  |
|   |          |          |          | 2021   | 2.2000    | 0.46     |        | 2050   | 22.619  | 0.0002   |  |
| WATERSHED CONDITIONS:                                       |          |          |          |        |           |          |        |        |         |          |  |
| Oak woodland and desert shrubs                              |          |          |          |        |           |          |        |        |         |          |  |
| (Whitethorn, creosotebush,                                  |          |          |          |        |           |          |        |        |         |          |  |
| tarbush, and Mortonia) with                                 |          |          |          |        |           |          |        |        |         |          |  |
| a crown spread of 25% cover,                                |          |          |          |        |           |          |        |        |         |          |  |
| occupy 55% of the area. The                                 |          |          |          |        |           |          |        |        |         |          |  |
| remaining 45% supports grass                                |          |          |          |        |           |          |        |        |         |          |  |
| (black grama, curly mesquite,                               |          |          |          |        |           |          |        |        |         |          |  |
| tobosa, blue grama, and                                     |          |          |          |        |           |          |        |        |         |          |  |
| sideoats grama) with a                                      |          |          |          |        |           |          |        |        |         |          |  |
| basal area of 2.5% cover,                                   |          |          |          |        |           |          |        |        |         |          |  |
| and a shrub cover of  |          |          |          |        |           |          |        |        |         |          |  |
| approximately 6% crown spread.                              |          |          |          |        |           |          |        |        |         |          |  |
|   |          |          |          | 2023   | 2.4000    | 0.54     |        | 2055   | 12.881  | 0.0002   |  |
|   |          |          |          | 2027   | 1.2000    | 0.62     |        | 2057   | 11.997  | 0.0002   |  |
|   |          |          |          | 2032   | 0.7200    | 0.68     |        | 2100   | 9.194   | 0.0003   |  |
|   |          |          |          | 2100   | 0.0429    | 0.70     |        | 2103   | 6.630   | 0.0003   |  |
|   |          |          |          | 2108   | 0.2250    | 0.73     |        | 2110   | 5.216   | 0.0003   |  |
|   |          |          |          |        |           |          |        | 2111   | 4.706   | 0.0003   |  |
|   |          |          |          |        |           |          |        | 2123   | 1.780   | 0.0003   |  |
|   |          |          |          |        |           |          |        | 2127   | 65.055  | 0.0004   |  |
|   |          |          |          |        |           |          |        | 2130   | 75.511  | 0.0005   |  |
|   |          |          |          |        |           |          |        | 2132   | 82.566  | 0.0006   |  |
|   |          |          |          |        |           |          |        | 2134   | 88.431  | 0.0007   |  |
|   |          |          |          |        |           |          |        | 2137   | 88.431  | 0.0009   |  |
|   |          |          |          |        |           |          |        | 2142   | 75.709  | 0.0011   |  |
|   |          |          |          |        |           |          |        | 2147   | 59.587  | 0.0013   |  |
|   |          |          |          |        |           |          |        | 2152   | 48.451  | 0.0015   |  |
|   |          |          |          |        |           |          |        | 2157   | 39.271  | 0.0016   |  |
|   |          |          |          |        |           |          |        | 2202   | 32.443  | 0.0017   |  |
|   |          |          |          |        |           |          |        | 2207   | 28.280  | 0.0018   |  |
|   |          |          |          |        |           |          |        | 2213   | 22.721  | 0.0019   |  |
|   |          |          |          |        |           |          |        | 2215   | 75.511  | 0.0020   |  |
|   |          |          |          |        |           |          |        | 2220   | 419.912 | 0.0027   |  |
|   |          |          |          |        |           |          |        | 2222   | 466.379 | 0.0032   |  |
|   |          |          |          |        |           |          |        | 2226   | 537.781 | 0.0044   |  |
|   |          |          |          |        |           |          |        | 2230   | 581.417 | 0.0057   |  |
|   |          |          |          |        |           |          |        | 2231   | 566.115 | 0.0060   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000353.

| 1974      SELECTED RUNOFF EVENT                        |          |          | TOMBSTONE, ARIZONA WATERSHED W-2 |        |           |          |        |        |         |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS                                  |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |         |          |
| Date   | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF      JULY      28 - 29, 1974      (CONTINUED) |          |          |                                  |        |           |          |        |        |         |          |
|  |          |          |                                  |        |           |          | 7-28   | 2233   | 590.200 | 0.0067   |
|  |          |          |                                  |        |           |          |        | 2236   | 572.917 | 0.0077   |
|  |          |          |                                  |        |           |          |        | 2240   | 535.799 | 0.0090   |
|  |          |          |                                  |        |           |          |        | 2242   | 535.799 | 0.0097   |
|  |          |          |                                  |        |           |          |        | 2243   | 511.998 | 0.0100   |
|  |          |          |                                  |        |           |          |        | 2245   | 511.998 | 0.0106   |
|  |          |          |                                  |        |           |          |        | 2251   | 466.947 | 0.0123   |
|  |          |          |                                  |        |           |          |        | 2256   | 427.279 | 0.0136   |
|  |          |          |                                  |        |           |          |        | 2300   | 395.544 | 0.0146   |
|  |          |          |                                  |        |           |          |        | 2304   | 361.826 | 0.0155   |
|  |          |          |                                  |        |           |          |        | 2307   | 331.226 | 0.0161   |
|  |          |          |                                  |        |           |          |        | 2312   | 294.958 | 0.0170   |
|  |          |          |                                  |        |           |          |        | 2317   | 251.607 | 0.0178   |
|  |          |          |                                  |        |           |          |        | 2322   | 216.161 | 0.0185   |
|  |          |          |                                  |        |           |          |        | 2330   | 187.516 | 0.0195   |
|  |          |          |                                  |        |           |          |        | 2337   | 161.391 | 0.0202   |
|  |          |          |                                  |        |           |          |        | 2345   | 144.901 | 0.0209   |
|  |          |          |                                  |        |           |          |        | 2351   | 130.961 | 0.0214   |
|  |          |          |                                  |        |           |          | 7-29   | 7      | 123.622 | 0.0226   |
|  |          |          |                                  |        |           |          |        | 16     | 105.686 | 0.0232   |
|  |          |          |                                  |        |           |          |        | 22     | 94.579  | 0.0235   |
|  |          |          |                                  |        |           |          |        | 30     | 86.221  | 0.0240   |
|  |          |          |                                  |        |           |          |        | 37     | 76.729  | 0.0243   |
|  |          |          |                                  |        |           |          |        | 43     | 75.709  | 0.0246   |
|  |          |          |                                  |        |           |          |        | 52     | 68.002  | 0.0250   |
|  |          |          |                                  |        |           |          |        | 107    | 56.158  | 0.0255   |
|  |          |          |                                  |        |           |          |        | 122    | 51.880  | 0.0260   |
|  |          |          |                                  |        |           |          |        | 137    | 40.575  | 0.0264   |
|  |          |          |                                  |        |           |          |        | 152    | 28.646  | 0.0267   |
|  |          |          |                                  |        |           |          |        | 207    | 20.565  | 0.0269   |
|  |          |          |                                  |        |           |          |        | 222    | 15.156  | 0.0271   |
|  |          |          |                                  |        |           |          |        | 237    | 11.733  | 0.0272   |
|  |          |          |                                  |        |           |          |        | 251    | 10.353  | 0.0273   |

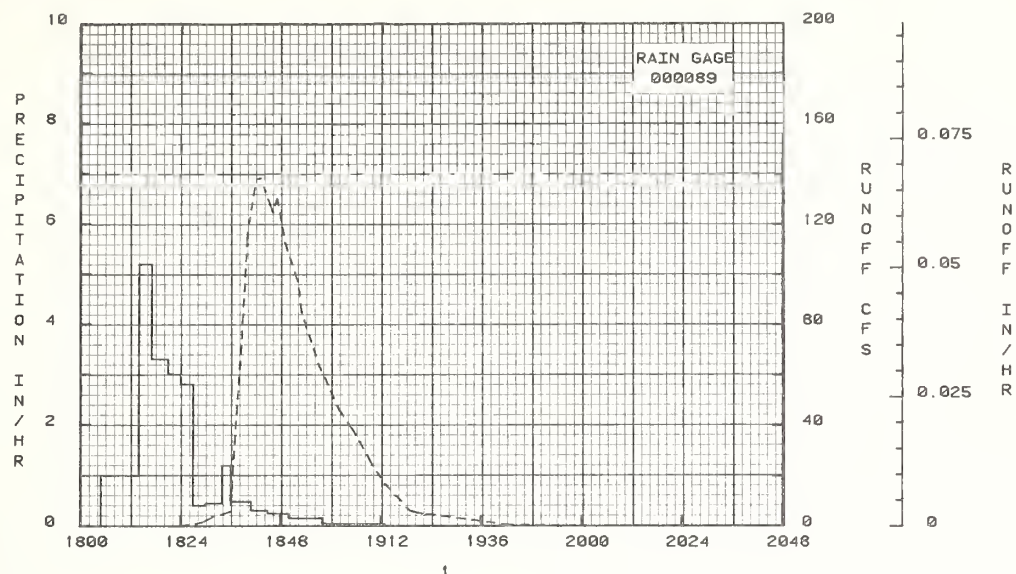
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



| 1974 SELECTED RUNOFF EVENT   |          |          | TOMBSTONE, ARIZONA WATERSHED W-2 |        |           |          |        |        |        |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|--------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL                         |        |           |          | RUNOFF |        |        |
| Date   | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate   |
| Mo-Day   | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  |
| EVENT OF AUGUST 1, 1974  |          |          |                                  |        |           |          |        |        |        |
| RG 000083  |          |          | RG 000083                        |        |           |          |        |        |        |
| 8- 1   | 0.0      | 0.0      | 8- 1                             | 1820   | 0.0       | 0.0      | 8- 1   | 1829   | 0.0    |
|  |          |          |                                  | 1825   | 2.0400    | 0.17     |        | 1836   | 0.128  |
|  |          |          |                                  | 1827   | 3.9000    | 0.30     |        | 1842   | 0.128  |
|  |          |          |                                  | 1832   | 1.6800    | 0.44     |        | 1843   | 0.113  |
|  |          |          |                                  | 1838   | 0.8000    | 0.52     |        | 1844   | 0.132  |
| WATERSHED CONDITIONS:<br>Oak woodland and desert shrubs<br>(Whitethorn, creosotebush,<br>tarbush, and mormonia) with<br>a crown spread of 25% cover,<br>occupy 55% of the area. The<br>remaining 45% supports grass<br>(black grama, curly mesquite,<br>tohosa, blue grama, and<br>sideoats grama) with a<br>basal area of 2.5% cover,<br>and a shrub cover of<br>approximately 6% crown spread. |          |          |                                  | 1843   | 0.7200    | 0.58     |        | 1846   | 0.132  |
|  |          |          |                                  | 1847   | 1.6500    | 0.69     |        | 1849   | 0.156  |
|  |          |          |                                  | 1851   | 0.9000    | 0.75     |        | 1854   | 0.324  |
|  |          |          |                                  | 1857   | 0.4000    | 0.79     |        | 1856   | 0.324  |
|  |          |          |                                  | 1907   | 0.2400    | 0.83     |        | 1901   | 0.248  |
|  |          |          |                                  |        |           |          |        | 1909   | 0.919  |
|  |          |          |                                  |        |           |          |        | 1912   | 0.919  |
|  |          |          |                                  |        |           |          |        | 1922   | 0.356  |
|  |          |          |                                  |        |           |          |        | 1932   | 0.132  |
|  |          |          |                                  |        |           |          |        | 1946   | 0.057  |
|  |          |          |                                  |        |           |          |        | 1955   | 2.183  |
|  |          |          |                                  |        |           |          |        | 1956   | 2.183  |
|  |          |          |                                  |        |           |          |        | 2001   | 1.992  |
|  |          |          |                                  |        |           |          |        | 2004   | 1.942  |
|  |          |          |                                  |        |           |          |        | 2006   | 68.795 |
|  |          |          |                                  |        |           |          |        | 2010   | 75.312 |
|  |          |          |                                  |        |           |          |        | 2013   | 84.719 |
|  |          |          |                                  |        |           |          |        | 2015   | 85.371 |
|  |          |          |                                  |        |           |          |        | 2016   | 87.099 |
|  |          |          |                                  |        |           |          |        | 2017   | 85.144 |
|  |          |          |                                  |        |           |          |        | 2019   | 85.144 |
|  |          |          |                                  |        |           |          |        | 2024   | 75.709 |
|  |          |          |                                  |        |           |          |        | 2029   | 68.200 |
|  |          |          |                                  |        |           |          |        | 2033   | 57.773 |
|  |          |          |                                  |        |           |          |        | 2044   | 40.575 |
|  |          |          |                                  |        |           |          |        | 2052   | 26.450 |
|  |          |          |                                  |        |           |          |        | 2102   | 17.255 |
|  |          |          |                                  |        |           |          |        | 2112   | 11.603 |
|  |          |          |                                  |        |           |          |        | 2122   | 7.424  |
|  |          |          |                                  |        |           |          |        | 2129   | 5.814  |
|  |          |          |                                  |        |           |          |        | 2133   | 19.358 |
|  |          |          |                                  |        |           |          |        | 2134   | 19.358 |
|  |          |          |                                  |        |           |          |        | 2139   | 18.638 |
|  |          |          |                                  |        |           |          |        | 2142   | 17.255 |
|  |          |          |                                  |        |           |          |        | 2143   | 17.255 |
|  |          |          |                                  |        |           |          |        | 2146   | 20.001 |
|  |          |          |                                  |        |           |          |        | 2147   | 20.001 |
|  |          |          |                                  |        |           |          |        | 2156   | 15.861 |
|  |          |          |                                  |        |           |          |        | 2209   | 11.866 |
|  |          |          |                                  |        |           |          |        | 2210   | 11.345 |
|  |          |          |                                  |        |           |          |        | 2216   | 9.248  |
|  |          |          |                                  |        |           |          |        | 2217   | 8.225  |
|  |          |          |                                  |        |           |          |        | 2239   | 4.800  |
|  |          |          |                                  |        |           |          |        | 2243   | 4.086  |
|  |          |          |                                  |        |           |          |        | 2256   | 2.345  |
|  |          |          |                                  |        |           |          |        | 2306   | 1.828  |
|  |          |          |                                  |        |           |          |        | 2322   | 0.864  |
|  |          |          |                                  |        |           |          |        | 2324   | 0.821  |
|  |          |          |                                  |        |           |          |        | 2330   | 0.749  |
|  |          |          |                                  |        |           |          |        | 2332   | 0.739  |
|  |          |          |                                  |        |           |          |        | 2339   | 0.520  |
|  |          |          |                                  |        |           |          |        | 2342   | 0.405  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.





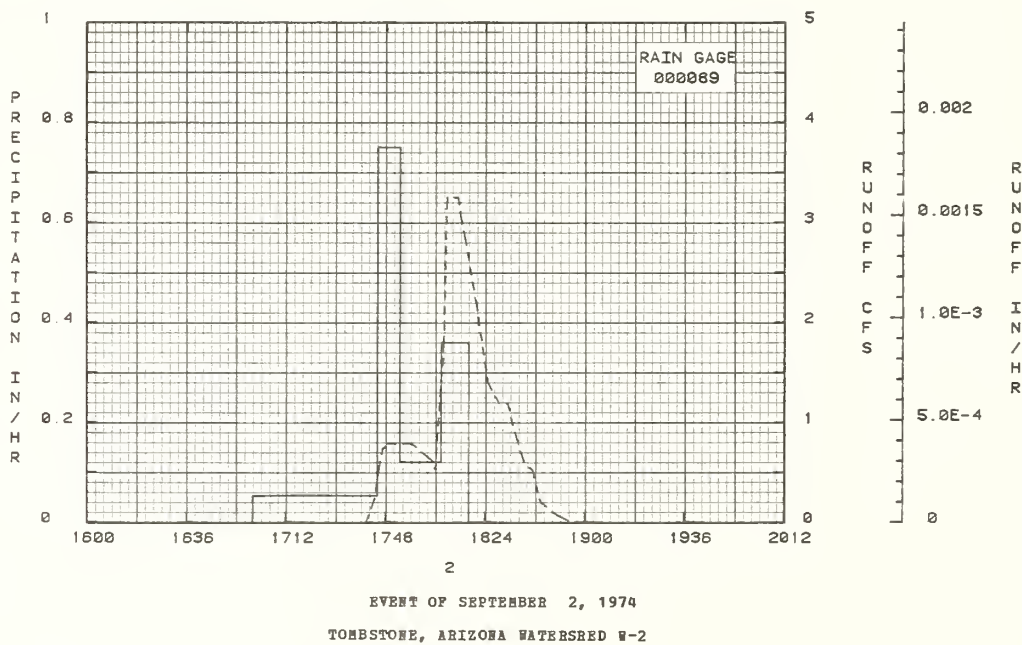
EVENT OF AUGUST 1, 1974  
TOMBSTONE, ARIZONA WATERSHED W-2

| 1974 SELECTED RUNOFF EVENT   |          |          | TOMBSTONE, ARIZONA WATERSHED W-2 |        |           |          |        |        |         |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL                         |        |           |          | RUNOFF |        |         |          |
| Date   | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF SEPTEMBER 2, 1974   |          |          |                                  |        |           |          |        |        |         |          |
| RG 000083  |          |          | RG 000083                        |        |           |          |        |        |         |          |
| 9- 2   | 0.0      | 0.0      | 9- 2                             | 1739   | 0.0       | 0.0      | 9- 2   | 1840   | 0.012   | 0.0      |
|  |          |          |                                  | 1748   | 0.4667    | 0.07     |        | 1847   | 0.0     | 0.0      |
|  |          |          |                                  | 1755   | 0.8571    | 0.17     |        | 1850   | 75.312  | 0.0      |
|  |          |          |                                  | 1801   | 0.7000    | 0.24     |        | 1851   | 466.379 | 0.0002   |
|  |          |          |                                  | 1808   | 0.7714    | 0.33     |        | 1853   | 754.822 | 0.0009   |
| WATERSHED CONDITIONS:<br>Oak woodland and desert shrubs<br>(whitethorn, creosotebush,<br>tarbush, and mormonia) with<br>a crown spread of 25% cover,<br>occupy 55% of the area. The<br>remaining 45% supports grass<br>(black grama, curly mesquite,<br>tobosa, blue grama, and<br>sideoats grama) with a<br>basal area of 2.5% cover,<br>and a shrub cover of<br>approximately 6% crown spread. |          |          |                                  | 1814   | 0.4000    | 0.37     |        | 1854   | 816.023 | 0.0014   |
|  |          |          |                                  | 1819   | 0.7200    | 0.43     |        | 1856   | 792.506 | 0.0023   |
|  |          |          |                                  | 1824   | 1.2000    | 0.53     |        | 1857   | 753.971 | 0.0028   |
|  |          |          |                                  | 1835   | 0.4364    | 0.61     |        | 1901   | 655.368 | 0.0044   |
|  |          |          |                                  | 1852   | 0.1059    | 0.64     |        | 1902   | 672.653 | 0.0048   |
|  |          |          |                                  |        |           |          |        | 1910   | 579.433 | 0.0078   |
|  |          |          |                                  |        |           |          |        | 1914   | 534.099 | 0.0091   |
|  |          |          |                                  |        |           |          |        | 1915   | 499.248 | 0.0094   |
|  |          |          |                                  |        |           |          |        | 1918   | 466.947 | 0.0102   |
|  |          |          |                                  |        |           |          |        | 1922   | 425.579 | 0.0113   |
|  |          |          |                                  |        |           |          |        | 1925   | 365.510 | 0.0120   |
|  |          |          |                                  |        |           |          |        | 1930   | 313.375 | 0.0130   |
|  |          |          |                                  |        |           |          |        | 1934   | 268.437 | 0.0137   |
|  |          |          |                                  |        |           |          |        | 1941   | 216.530 | 0.0147   |
|  |          |          |                                  |        |           |          |        | 1944   | 185.702 | 0.0150   |
|  |          |          |                                  |        |           |          |        | 1954   | 156.830 | 0.0160   |
|  |          |          |                                  |        |           |          |        | 2007   | 132.689 | 0.0171   |
|  |          |          |                                  |        |           |          |        | 2014   | 107.698 | 0.0176   |
|  |          |          |                                  |        |           |          |        | 2020   | 94.579  | 0.0180   |
|  |          |          |                                  |        |           |          |        | 2024   | 84.719  | 0.0182   |
|  |          |          |                                  |        |           |          |        | 2025   | 84.917  | 0.0183   |
|  |          |          |                                  |        |           |          |        | 2030   | 78.372  | 0.0185   |
|  |          |          |                                  |        |           |          |        | 2034   | 66.415  | 0.0187   |
|  |          |          |                                  |        |           |          |        | 2044   | 53.920  | 0.0190   |
|  |          |          |                                  |        |           |          |        | 2047   | 54.260  | 0.0191   |

NOTES: To Convert runoff in CFS to IN/HR, multiply by 0.0000353.

| 1974 SELECTED RUNOFF EVENT             |                      |                    | TOMBSTONE, ARIZONA WATERSHED W-2 |                |                      |                  |                |                |               |
|--|----------------------|--------------------|----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|
| ANTECEDENT CONDITIONS                  |                      |                    | RAINFALL                         |                |                      | RUNOFF           |                |                |               |
| Date<br>Mo-Day                         | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                   | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) |
| EVENT OF SEPTEMBER 2, 1974 (CONTINUED) |                      |                    |                                  |                |                      |                  |                |                |               |
|  |                      |                    |                                  | 9- 2           |                      |                  | 2057           |                | 44.541        |
|  |                      |                    |                                  |                |                      |                  | 2101           |                | 42.161        |
|  |                      |                    |                                  |                |                      |                  | 2104           |                | 42.020        |
|  |                      |                    |                                  |                |                      |                  | 2114           |                | 34.936        |
|  |                      |                    |                                  |                |                      |                  | 2117           |                | 34.936        |
|  |                      |                    |                                  |                |                      |                  | 2131           |                | 28.646        |
|  |                      |                    |                                  |                |                      |                  | 2147           |                | 21.234        |
|  |                      |                    |                                  |                |                      |                  | 2201           |                | 13.589        |
|  |                      |                    |                                  |                |                      |                  | 2219           |                | 7.817         |
|  |                      |                    |                                  |                |                      |                  | 2221           |                | 7.769         |
|  |                      |                    |                                  |                |                      |                  | 2230           |                | 5.650         |
|  |                      |                    |                                  |                |                      |                  | 2235           |                | 5.216         |
|  |                      |                    |                                  |                |                      |                  | 2247           |                | 4.142         |
|  |                      |                    |                                  |                |                      |                  | 2301           |                | 3.298         |
|  |                      |                    |                                  |                |                      |                  | 2311           |                | 2.669         |
|  |                      |                    |                                  |                |                      |                  | 2321           |                | 1.860         |
|  |                      |                    |                                  |                |                      |                  | 2327           |                | 1.611         |
|  |                      |                    |                                  |                |                      |                  | 2331           |                | 1.478         |
|  |                      |                    |                                  |                |                      |                  | 2344           |                | 1.339         |

NOTES: To Convert runoff in CFS to IN/HR, multiply by 0.0000353.



TOBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

AREA: 2220.00 acres 3.47 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |      |      | TOBSTONE, ARIZONA WATERSHED W-3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|-----------------------------|------------------|-------------------|-------------------|--------------------|-----------------|------------------|------------------|-------|-------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   |   | Jan                         | Feb              | Mar               | Apr               | May                | Jun             | Jul              | Aug              | Sep   | Oct   | Nov  | Dec  | Annual                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 1.31                        | 0.0              | 0.27              | 0.0               | 0.06               | 0.22            | 2.98             | 1.98             | 1.75  | 2.03  | 0.01 | 0.15 | 10.76                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.0                         | 0.0              | 0.0               | 0.0               | 0.0                | 0.0             | 0.008            | 0.031            | 0.009 | 0.020 | 0.0  | 0.0  | 0.068                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 0.51                        | 0.39             | 0.51              | 0.13              | 0.08               | 0.32            | 3.38             | 3.00             | 1.30  | 0.66  | 0.40 | 0.69 | 11.38                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.0                         | 0.0              | 0.0               | 0.0               | 0.0                | 0.0             | 0.025            | 0.105            | 0.024 | 0.001 | 0.0  | 0.0  | 0.156                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date Rate | 1 Hour Date Vol. | 2 Hours Date Vol. | 6 Hours Date Vol. | 12 Hours Date Vol. | 1 Day Date Vol. | 2 Days Date Vol. | 8 Days Date Vol. |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 8-1 0.065                   | 8-1 0.025        | 8-1 0.028         | 8-1 0.029         | 8-1 0.029          | 7-31 0.029      | 7-31 0.029       | 7-27 0.034       |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | 8-16 0.580                  | 8-10 0.275       | 8-10 0.312        | 8-11 0.320        | 8-11 0.320         | 8-11 0.320      | 8-11 0.320       | 8-10 0.426       |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | 1958                        | 1971             | 1971              | 1971              | 1971               | 1971            | 1971             | 1971             |       |       |      |      |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, station averages are based on record period (1955-74). Runoff Data: Records began 1958, station averages are based on record period (1958-74). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |       |      |       |      |      |      |       |       |       |       |      |      |       | TOMBSTONE, ARIZONA WATERSHED W-3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|------|-------|------|------|------|-------|-------|-------|-------|------|------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb  | Mar   | Apr  | May  | Jun  | Jul   | Aug   | Sep   | Oct   | Nov  | Dec  |       |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.92E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.12E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.03  | 0.19E | 0.65E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.01  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.07E | 0.01E | 0.03E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.14E | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.04E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.09E |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.07E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.06  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.31  | 0.0   | 0.0   | 0.14  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.39E | 0.0  | 0.0   | 0.0  | 0.06 | 0.0  | 0.10  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.60E | 0.0  | 0.14  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.01  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.09  | 0.32  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.15  | 0.17  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.29  | 0.27  | 0.12E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.03  | 0.03E | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.09E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.19  | 0.13  | 0.01  | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.0   | 0.0  | 0.09E | 0.0  | 0.0  | 0.0  | 0.35  | 0.05  | 0.01  | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.11  | 0.0   | 0.13E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.18  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.05  | 0.03  | 0.46E | 0.01 | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0   | 0.0  | 0.04  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.03E | 0.01  | 0.0  | 0.0  | 0.01E |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.01 | 0.0   | 0.02E | 0.56E | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.09  | 0.0   | 0.0  | 0.0  | 0.01E |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.21 | 0.11E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.04E |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.08E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.36E | 0.0   | 0.0   | 0.01  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.40E | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.16E | 0.0   | 0.0   | 0.71  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.21  | 0.0   | 0.0   | 0.13  | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 1.31  | 0.0  | 0.27  | 0.0  | 0.06 | 0.22 | 2.98  | 1.98  | 1.75  | 2.03  | 0.01 | 0.15 |       |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 0.51  | 0.39 | 0.51  | 0.13 | 0.08 | 0.32 | 3.38  | 3.00  | 1.30  | 0.66  | 0.40 | 0.69 |       |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period (1955-74).

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-3 |     |     |     |     |     |     |        |        |        |        |     |     |
|--|-----|-----|-----|-----|-----|-----|--------|--------|--------|--------|-----|-----|
| Day  | Jan | Feb | Mar | Apr | May | Jun | Jul    | Aug    | Sep    | Oct    | Nov | Dec |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 2.696E | 0.0    | 0.0    | 0.0 | 0.0 |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.196E | 0.0    | 0.0    | 0.0 | 0.0 |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.354  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.075E | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 1.847E | 0.0 | 0.0 |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.849  | 0.0    | 0.0 | 0.0 |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.205E | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.019E | 0.0    | 0.0    | 0.028  | 0.0 | 0.0 |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.065E | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0232 | 0.0933 | 0.0283 | 0.0605 | 0.0 | 0.0 |
| INCHES   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.008  | 0.031  | 0.009  | 0.020  | 0.0 | 0.0 |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.025  | 0.105  | 0.024  | 0.001  | 0.0 | 0.0 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010722. STA AV based on record period (1958-74).

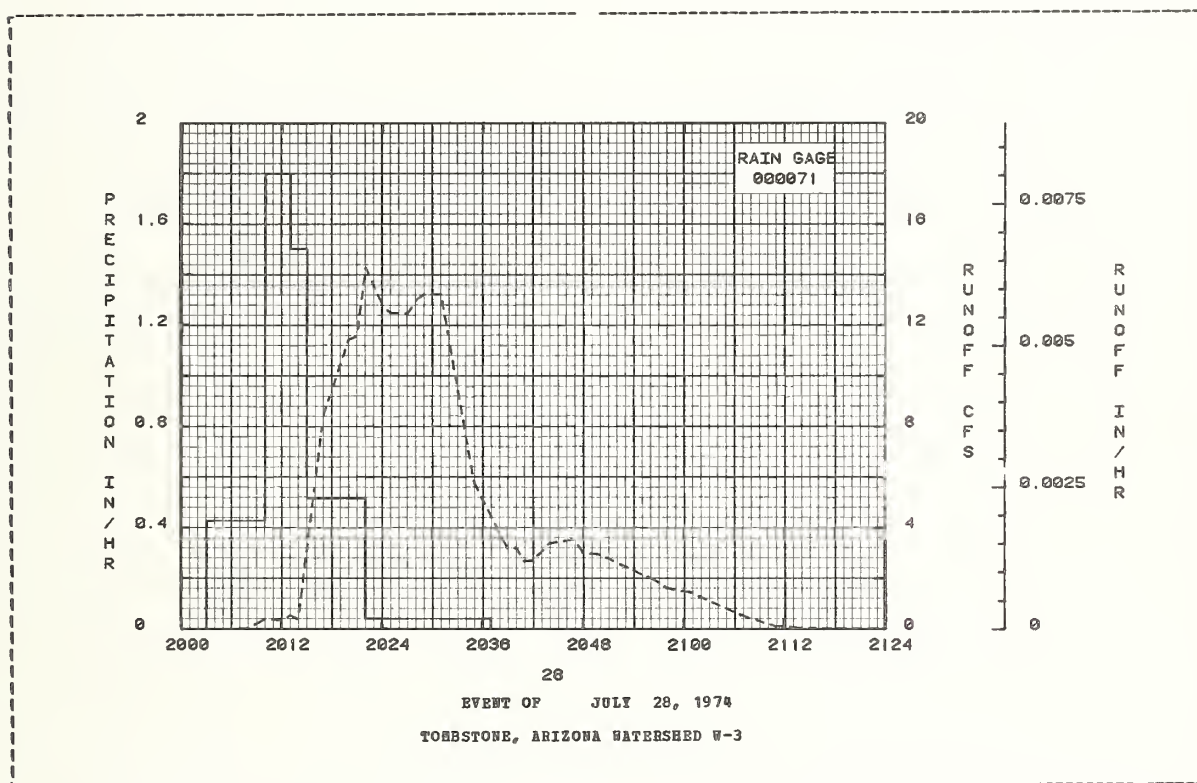
| 1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-3   |          |          |           |        |           |          |        |        |        |          |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL  |        |           | RUNOFF   |        |        |        |          |
| Date  | Rainfall | Rnnoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF JULY 28, 1974  |          |          |           |        |           |          |        |        |        |          |
| RG 000071   |          |          | RG 000071 |        |           |          |        |        |        |          |
| 7-28  | 0.0      | 0.0      | 7-28      | 2003   | 0.0       | 0.0      | 7-28   | 2007   | 0.0    | 0.0      |
|   |          |          |           | 2010   | 0.4286    | 0.05     |        | 2008   | 0.037  | 0.0      |
|   |          |          |           | 2013   | 1.8000    | 0.14     |        | 2010   | 0.395  | 0.0      |
|   |          |          |           | 2015   | 1.5000    | 0.19     |        | 2012   | 0.317  | 0.0      |
|   |          |          |           | 2022   | 0.5143    | 0.25     |        | 2013   | 0.530  | 0.0      |
| WATERSHED CONDITIONS:   |          |          |           |        |           |          |        |        |        |          |
| Vegetative Cover: Desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover, occupy 55% of the area. |          |          |           |        |           |          |        |        |        |          |
| Grasses (black grama, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area.   |          |          |           |        |           |          |        |        |        |          |
|   |          |          |           | 2037   | 0.0400    | 0.26     |        | 2014   | 0.378  | 0.0      |
|   |          |          |           |        |           |          |        | 2017   | 8.484  | 0.0001   |
|   |          |          |           |        |           |          |        | 2020   | 11.443 | 0.0003   |
|   |          |          |           |        |           |          |        | 2021   | 11.555 | 0.0004   |
|   |          |          |           |        |           |          |        | 2022   | 14.273 | 0.0005   |
|   |          |          |           |        |           |          |        | 2024   | 12.813 | 0.0007   |
|   |          |          |           |        |           |          |        | 2025   | 12.464 | 0.0008   |
|   |          |          |           |        |           |          |        | 2027   | 12.464 | 0.0010   |
|   |          |          |           |        |           |          |        | 2028   | 12.992 | 0.0010   |
|   |          |          |           |        |           |          |        | 2029   | 13.230 | 0.0011   |
|   |          |          |           |        |           |          |        | 2031   | 13.230 | 0.0013   |
|   |          |          |           |        |           |          |        | 2035   | 5.744  | 0.0016   |
|   |          |          |           |        |           |          |        | 2039   | 3.192  | 0.0018   |
|   |          |          |           |        |           |          |        | 2040   | 3.192  | 0.0018   |
|   |          |          |           |        |           |          |        | 2041   | 2.675  | 0.0018   |
|   |          |          |           |        |           |          |        | 2042   | 2.675  | 0.0018   |
|   |          |          |           |        |           |          |        | 2044   | 3.385  | 0.0019   |
|   |          |          |           |        |           |          |        | 2047   | 3.555  | 0.0019   |
|   |          |          |           |        |           |          |        | 2048   | 3.006  | 0.0020   |
|   |          |          |           |        |           |          |        | 2050   | 2.928  | 0.0020   |
|   |          |          |           |        |           |          |        | 2057   | 1.852  | 0.0021   |
|   |          |          |           |        |           |          |        | 2058   | 1.602  | 0.0022   |
|   |          |          |           |        |           |          |        | 2101   | 1.424  | 0.0022   |
|   |          |          |           |        |           |          |        | 2107   | 0.530  | 0.0022   |
|   |          |          |           |        |           |          |        | 2111   | 0.103  | 0.0022   |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.000447.



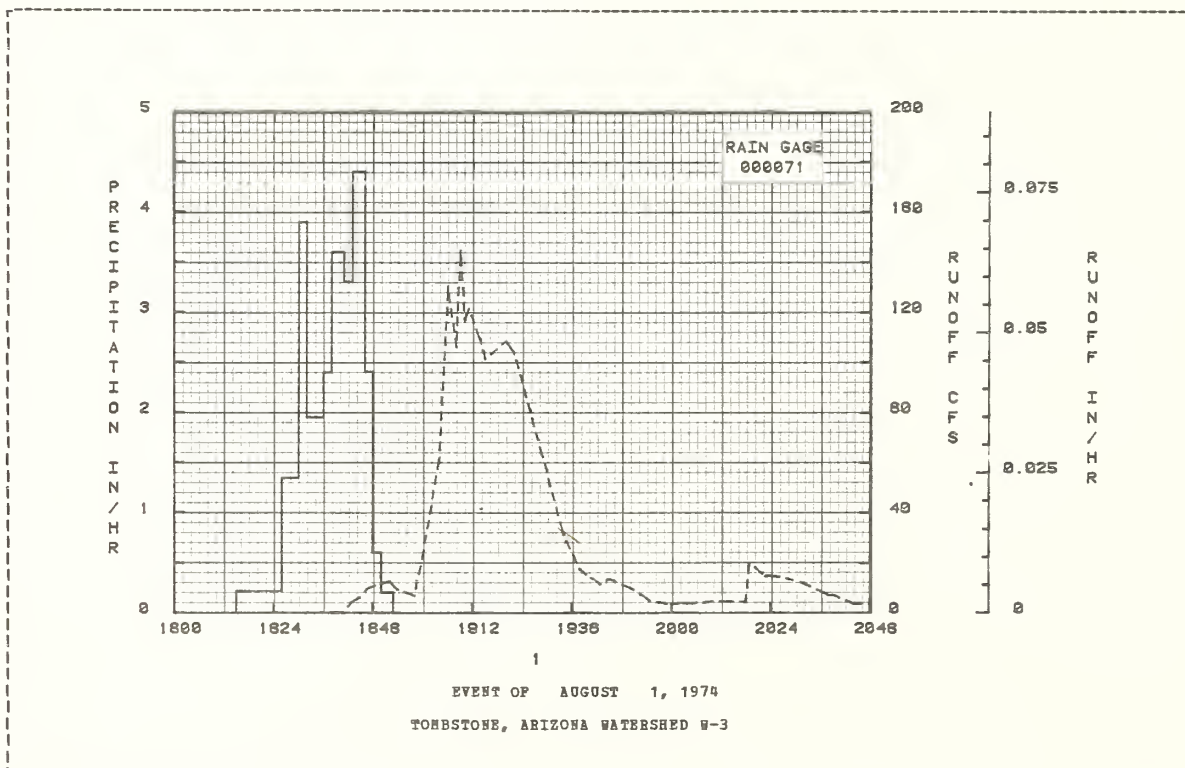
| 1974 SELECTED RUNOFF EVENT         |          |          | TOMBSTONE, ARIZONA WATERSHED W-3 |        |           |          |        |        |        |
|------------------------------------|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|--------|
| ANTECEDENT CONDITIONS              |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |        |
| Date                               | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate   |
| Mo-Day                             | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  |
| EVENT OF JULY 28, 1974 (CONTINUED) |          |          |                                  |        |           |          |        |        |        |
|                                    |          |          |                                  |        |           |          | 7-28   | 2113   | 0.061  |
|                                    |          |          |                                  |        |           |          |        | 2114   | 0.029  |
|                                    |          |          |                                  |        |           |          |        | 2124   | 0.004  |
|                                    |          |          |                                  |        |           |          |        |        | 0.0022 |
|                                    |          |          |                                  |        |           |          |        |        | 0.0022 |
|                                    |          |          |                                  |        |           |          |        |        | 0.0022 |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.



| 1974 SELECTED RUNOFF EVENT   |          |          | TOMBSTONE, ARIZONA WATERSHED W-3 |        |           |          |        |        |         |          |
|--|----------|----------|----------------------------------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL                         |        |           | RUNOFF   |        |        |         |          |
| Date   | Rainfall | Runoff   | Date                             | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day                           | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 1, 1974  |          |          |                                  |        |           |          |        |        |         |          |
| RG 000071  |          |          | RG 000071                        |        |           |          |        |        |         |          |
| 8- 1   | 0.0      | 0.0      | 8- 1                             | 1815   | 0.0       | 0.0      | 8- 1   | 1832   | 0.061   | 0.0      |
|  |          |          |                                  | 1826   | 0.2182    | 0.04     |        | 1834   | 0.061   | 0.0      |
|  |          |          |                                  | 1830   | 1.3500    | 0.13     |        | 1835   | 0.084   | 0.0      |
|  |          |          |                                  | 1832   | 3.9000    | 0.26     |        | 1836   | 0.188   | 0.0      |
|  |          |          |                                  | 1836   | 1.9500    | 0.39     |        | 1839   | 0.217   | 0.0      |
| WATERSHED CONDITIONS:<br>Vegetative cover: desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover, occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. |          |          |                                  | 1838   | 2.4000    | 0.47     |        | 1841   | 0.217   | 0.0      |
|  |          |          |                                  | 1841   | 3.6000    | 0.65     |        | 1843   | 4.511   | 0.0      |
|  |          |          |                                  | 1843   | 3.3000    | 0.76     |        | 1845   | 6.283   | 0.0001   |
|  |          |          |                                  | 1846   | 4.4000    | 0.98     |        | 1847   | 10.004  | 0.0002   |
|  |          |          |                                  | 1848   | 2.4000    | 1.06     |        | 1852   | 12.639  | 0.0006   |
|  |          |          |                                  | 1850   | 0.6000    | 1.08     |        | 1854   | 9.202   | 0.0008   |
|  |          |          |                                  | 1853   | 0.2000    | 1.09     |        | 1858   | 6.852   | 0.0010   |
|  |          |          |                                  |        |           |          |        | 1900   | 21.975  | 0.0013   |
|  |          |          |                                  |        |           |          |        | 1904   | 62.051  | 0.0025   |
|  |          |          |                                  |        |           |          |        | 1906   | 130.034 | 0.0039   |
|  |          |          |                                  |        |           |          |        | 1908   | 105.971 | 0.0057   |
|  |          |          |                                  |        |           |          |        | 1909   | 144.585 | 0.0066   |
|  |          |          |                                  |        |           |          |        | 1910   | 116.357 | 0.0076   |
|  |          |          |                                  |        |           |          |        | 1911   | 121.439 | 0.0085   |
|  |          |          |                                  |        |           |          |        | 1914   | 107.493 | 0.0110   |
|  |          |          |                                  |        |           |          |        | 1915   | 101.270 | 0.0118   |
|  |          |          |                                  |        |           |          |        | 1920   | 108.455 | 0.0157   |
|  |          |          |                                  |        |           |          |        | 1922   | 103.508 | 0.0173   |
|  |          |          |                                  |        |           |          |        | 1929   | 62.208  | 0.0216   |
|  |          |          |                                  |        |           |          |        | 1934   | 31.205  | 0.0234   |
|  |          |          |                                  |        |           |          |        | 1938   | 17.104  | 0.0241   |
|  |          |          |                                  |        |           |          |        | 1943   | 11.389  | 0.0246   |
|  |          |          |                                  |        |           |          |        | 1945   | 13.655  | 0.0248   |
|  |          |          |                                  |        |           |          |        | 1951   | 9.202   | 0.0253   |
|  |          |          |                                  |        |           |          |        | 1955   | 4.676   | 0.0255   |
|  |          |          |                                  |        |           |          |        | 1959   | 3.642   | 0.0256   |
|  |          |          |                                  |        |           |          |        | 2000   | 3.642   | 0.0257   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.



## TOMBSTONE, ARIZONA W-4

LOCATION: Cochise Connty, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 19 sec. N.; Long. 110 deg. 02 min. 40 sec. W.

AREA: 560.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       |         |       |          |       | TOMBSTONE, ARIZONA W-4 |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|------------------------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual                 |       |
| 1974  | P | 1.39              | 0.0   | 0.30   | 0.0   | 0.04    | 0.20  | 2.88                                      | 1.82  | 1.57    | 2.09  | 0.0      | 0.15  | 10.44                  |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.0                                       | 0.067 | 0.004   | 0.081 | 0.0      | 0.0   | 0.152                  |       |
| STA AV  | P | 0.49              | 0.38  | 0.53   | 0.13  | 0.08    | 0.35  | 3.33                                      | 3.05  | 1.31    | 0.67  | 0.40     | 0.67  | 11.39                  |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.314                                     | 0.141 | 0.028   | 0.004 | 0.0      | 0.0   | 0.486                  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |                        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day                  |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date                   | Vol.  |
| 1974  |   | 10-22             | 0.180 | 10-22  | 0.077 | 10-22   | 0.080 | 10-22                                     | 0.081 | 10-22   | 0.081 | 10-21    | 0.081 | 10-20                  | 0.081 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |                        |       |
|   |   | 7-19              | 2.250 | 7-19   | 0.980 | 7-19    | 1.100 | 7-19                                      | 1.100 | 7-19    | 1.100 | 7-19     | 1.630 | 7-19                   | 1.630 |
|   |   | 1955              |       | 1955   |       | 1955    |       | 1955                                      |       | 1955    |       | 1955     |       | 1955                   |       |

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of four rain gages, station averages are based on record period (1955-74). Runoff Data: Records began January 1955, station averages based on 18 yr period, (1955-58) and (1961-74). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |     |       |      |       |      |      |      |       |      |       |       |      |       | TOMBSTONE, ARIZONA W-4 |  |
|-----------------------------------|-----|-------|------|-------|------|------|------|-------|------|-------|-------|------|-------|------------------------|--|
|                                   | Day | Jan   | Feb  | Mar   | Apr  | May  | Jun  | Jul   | Aug  | Sep   | Oct   | Nov  | Dec   |                        |  |
|                                   | 1   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 1.03 | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 2   | 0.13E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.03  | 0.19 | 0.55  | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 3   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.01E | 0.0  | 0.03  | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 4   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.14 | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 5   | 0.04  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0  | 0.08  |                        |  |
|                                   | 6   | 0.06  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.04  | 0.0  | 0.0   |                        |  |
|                                   | 7   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.36  | 0.0  | 0.0   | 0.16  | 0.0  | 0.0   |                        |  |
|                                   | 8   | 0.43E | 0.0  | 0.0 T | 0.0  | 0.04 | 0.0  | 0.09  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 9   | 0.66  | 0.0  | 0.16  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 10  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 11  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.01  | 0.0  | 0.0   |                        |  |
|                                   | 12  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.08  | 0.34  | 0.0  | 0.0   |                        |  |
|                                   | 13  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.13  | 0.22 | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 14  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.34  | 0.04 | 0.12E | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 15  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.01  | 0.01 | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 16  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.03  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 17  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 18  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.15  | 0.07 | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 19  | 0.0   | 0.0  | 0.09  | 0.0  | 0.0  | 0.0  | 0.30  | 0.05 | 0.01  | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 20  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.12  | 0.0  | 0.04E | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 21  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 T | 0.20  | 0.0  | 0.0   |                        |  |
|                                   | 22  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.06 | 0.0   | 0.52E | 0.0  | 0.0   |                        |  |
|                                   | 23  | 0.0   | 0.0  | 0.05  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.01E | 0.0   | 0.0  | 0.01E |                        |  |
|                                   | 24  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 | 0.69E | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 25  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.04  | 0.0   | 0.0  | 0.01E |                        |  |
|                                   | 26  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.20 | 0.13  | 0.0  | 0.0   | 0.0   | 0.0  | 0.05E |                        |  |
|                                   | 27  | 0.07E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.39  | 0.0  | 0.0   | 0.01  | 0.0  | 0.0   |                        |  |
|                                   | 28  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.41  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   |                        |  |
|                                   | 29  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.14  | 0.0  | 0.0   | 0.70  | 0.0  | 0.0   |                        |  |
|                                   | 30  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.24  | 0.0  | 0.0   | 0.10  | 0.0  | 0.0   |                        |  |
|                                   | 31  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.01  | 0.0  | 0.0   |                        |  |
| TOTAL                             |     | 1.39  | 0.0  | 0.30  | 0.0  | 0.04 | 0.20 | 2.88  | 1.82 | 1.57  | 2.09  | 0.0  | 0.15  |                        |  |
| STA AV                            |     | 0.49  | 0.38 | 0.53  | 0.13 | 0.08 | 0.35 | 3.33  | 3.05 | 1.31  | 0.67  | 0.40 | 0.67  |                        |  |

NOTES: Data are Thiessen weighted averages of values from four gages. STA AV are for record period (1955-74).

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-4 |     |     |     |     |     |     |       |        |        |        |     |     |
|--|-----|-----|-----|-----|-----|-----|-------|--------|--------|--------|-----|-----|
| Day  | Jan | Feb | Mar | Apr | May | Jun | Jul   | Aug    | Sep    | Oct    | Nov | Dec |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 1.574  | 0.0    | 0.0    | 0.0 | 0.0 |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 1.899  | 0.0 | 0.0 |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.099  | 0.0    | 0.0 | 0.0 |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0508 | 0.0033 | 0.0612 | 0.0 | 0.0 |
| INCHES   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.067  | 0.004  | 0.081  | 0.0 | 0.0 |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.314 | 0.141  | 0.028  | 0.004  | 0.0 | 0.0 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.042503. STA AV based on record period (1955-58) and (1961-74).

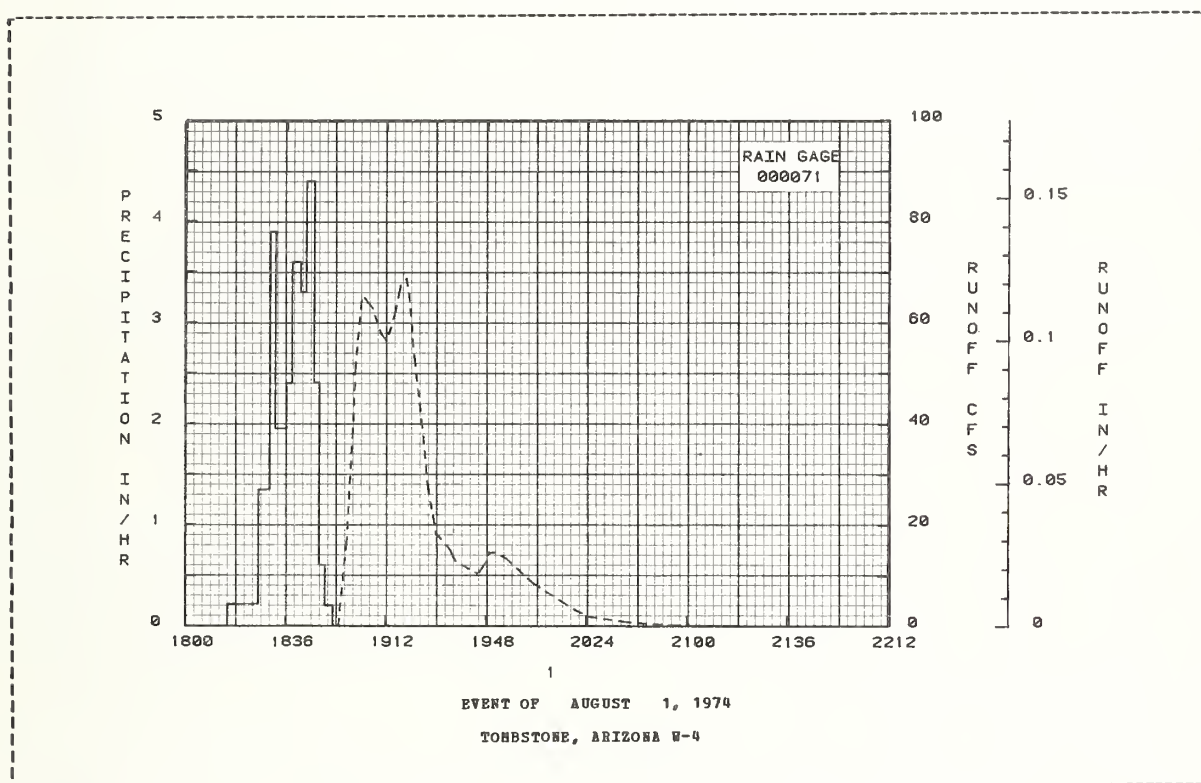
| 1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-4 |          |          |           |        |           |          |        |        |        |          |  |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS                             |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |  |
| Date  | Rainfall | Rnoff    | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF AUGUST 1, 1974                           |          |          |           |        |           |          |        |        |        |          |  |
| RG 000071   |          |          | RG 000071 |        |           |          |        |        |        |          |  |
| 8- 1  | 0.0      | 0.0      | 8- 1      | 1815   | 0.0       | 0.0      | 8- 1   | 1855   | 0.0    | 0.0      |  |
|   |          |          |           | 1826   | 0.2182    | 0.04     |        | 1858   | 17.606 | 0.0008   |  |
|   |          |          |           | 1830   | 1.3500    | 0.13     |        | 1900   | 39.092 | 0.0025   |  |
|   |          |          |           | 1832   | 3.9000    | 0.26     |        | 1901   | 52.079 | 0.0038   |  |
|   |          |          |           | 1836   | 1.9500    | 0.39     |        | 1903   | 64.485 | 0.0072   |  |
|   |          |          |           | 1838   | 2.4000    | 0.47     |        | 1904   | 64.880 | 0.0091   |  |
|   |          |          |           | 1841   | 3.6000    | 0.65     |        | 1907   | 62.678 | 0.0148   |  |
|   |          |          |           | 1843   | 3.3000    | 0.76     |        | 1910   | 57.652 | 0.0201   |  |
|   |          |          |           | 1846   | 4.4000    | 0.98     |        | 1912   | 56.229 | 0.0235   |  |
|   |          |          |           | 1848   | 2.4000    | 1.06     |        | 1915   | 61.944 | 0.0287   |  |
|   |          |          |           | 1850   | 0.6000    | 1.08     |        | 1917   | 67.478 | 0.0325   |  |
|   |          |          |           | 1853   | 0.2000    | 1.09     |        | 1919   | 68.607 | 0.0366   |  |
|   |          |          |           |        |           |          |        | 1920   | 65.614 | 0.0385   |  |
|   |          |          |           |        |           |          |        | 1922   | 52.762 | 0.0420   |  |
|   |          |          |           |        |           |          |        | 1925   | 39.092 | 0.0461   |  |
|   |          |          |           |        |           |          |        | 1927   | 27.522 | 0.0481   |  |
|   |          |          |           |        |           |          |        | 1930   | 18.273 | 0.0501   |  |
|   |          |          |           |        |           |          |        | 1935   | 15.026 | 0.0525   |  |
|   |          |          |           |        |           |          |        | 1937   | 12.784 | 0.0534   |  |
|   |          |          |           |        |           |          |        | 1945   | 10.294 | 0.0561   |  |
|   |          |          |           |        |           |          |        | 1948   | 12.784 | 0.0571   |  |
|   |          |          |           |        |           |          |        | 1949   | 14.523 | 0.0575   |  |
|   |          |          |           |        |           |          |        | 1951   | 14.608 | 0.0584   |  |
|   |          |          |           |        |           |          |        | 1955   | 13.383 | 0.0600   |  |
|   |          |          |           |        |           |          |        | 2005   | 8.351  | 0.0632   |  |
|   |          |          |           |        |           |          |        | 2015   | 4.880  | 0.0652   |  |
|   |          |          |           |        |           |          |        | 2020   | 3.122  | 0.0658   |  |
|   |          |          |           |        |           |          |        | 2025   | 1.766  | 0.0661   |  |
|   |          |          |           |        |           |          |        | 2040   | 0.692  | 0.0667   |  |
|   |          |          |           |        |           |          |        | 2055   | 0.203  | 0.0669   |  |

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.001771.



| 1974 SELECTED RUNOFF EVENT          |          |          |          |        |           | TOMBSTONE, ARIZONA W-4 |        |        |       |          |
|-------------------------------------|----------|----------|----------|--------|-----------|------------------------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS               |          |          | RAINFALL |        |           |                        | RUNOFF |        |       |          |
| Date                                | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.                   | Date   | Time   | Rate  | Acc.     |
| Mo-Day                              | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)               | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF AUGUST 1, 1974 (CONTINUED) |          |          |          |        |           |                        |        |        |       |          |
|                                     |          |          |          |        |           |                        | 8- 1   | 2105   | 0.094 | 0.0669   |
|                                     |          |          |          |        |           |                        |        | 2115   | 0.019 | 0.0669   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



## TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 23 sec. N.; Long. 110 deg. 02 min. 39 sec. W.

AREA: 3830.00 acres 5.98 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |                                  |       | TOMBSTONE, ARIZONA W-8 |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|----------------------------------|-------|------------------------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                              | Aug   | Sep                    | Oct   | Nov    | Dec   | Annual |       |
| 1974  | P | 1.19              | 0.0   | 0.19   | 0.0   | 0.06    | 0.23  | 3.23                             | 2.15  | 1.80                   | 2.01  | 0.01   | 0.15  | 11.02  |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.001                            | 0.037 | 0.038                  | 0.010 | 0.0    | 0.0   | 0.086  |       |
| STA AV  | P | 0.38              | 0.57  | 0.70   | 0.15  | 0.11    | 0.41  | 2.86                             | 3.36  | 1.20                   | 0.94  | 0.32   | 0.48  | 11.46  |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.004 | 0.040                            | 0.121 | 0.014                  | 0.003 | 0.0    | 0.0   | 0.182  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |                                  |       |                        |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time |       | Interval               |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                             | Vol.  | Date                   | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 8-15              | 0.056 | 8-15   | 0.028 | 8-15    | 0.030 | 8-14                             | 0.030 | 8-14                   | 0.030 | 8-14   | 0.030 | 8-13   | 0.031 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |                                  |       |                        |       |        |       |        |       |
|   |   | 7-22              | 1.110 | 7-22   | 0.310 | 7-22    | 0.320 | 7-22                             | 0.340 | 7-22                   | 0.340 | 7-22   | 0.340 | 7-22   | 0.340 |
|   |   | 1964              |       | 1964   |       | 1964    |       | 1964                             |       | 1964                   |       | 1964   |       | 1964   |       |

NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, station averages are based on 1968-74 data. Runoff Data: Records began 1963, station averages are based on 1966, 1968-74 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974   |       | DAILY PRECIPITATION (inches) |       |      |       |      |       | TOMBSTONE, ARIZONA W-8 |       |       |       |       |  |  |
|--------|-------|------------------------------|-------|------|-------|------|-------|------------------------|-------|-------|-------|-------|--|--|
| Day    | Jan   | Feb                          | Mar   | Apr  | May   | Jun  | Jul   | Aug                    | Sep   | Oct   | Nov   | Dec   |  |  |
| 1      | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.59                   | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 2      | 0.10S | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.21E | 0.20                   | 0.60E | 0.0   | 0.01E | 0.0   |  |  |
| 3      | 0.01E | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.42  | 0.0                    | 0.04E | 0.0   | 0.0   | 0.0   |  |  |
| 4      | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.10                   | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 5      | 0.03E | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 T                  | 0.0   | 0.0   | 0.0   | 0.10E |  |  |
| 6      | 0.06E | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.03  | 0.0                    | 0.11  | 0.10  | 0.0   | 0.0   |  |  |
| 7      | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.20  | 0.0                    | 0.0   | 0.07  | 0.0   | 0.0   |  |  |
| 8      | 0.40E | 0.0                          | 0.0 T | 0.0  | 0.06E | 0.0  | 0.13  | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 9      | 0.53E | 0.0                          | 0.11E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 10     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 11     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0                    | 0.0   | 0.01E | 0.0   | 0.0   |  |  |
| 12     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0                    | 0.17E | 0.32E | 0.0   | 0.0   |  |  |
| 13     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.26E | 0.13E                  | 0.0   | 0.0 E | 0.0   | 0.0   |  |  |
| 14     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.19E | 0.61                   | 0.07E | 0.0   | 0.0   | 0.0   |  |  |
| 15     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.02  | 0.08                   | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 16     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.27E | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 17     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.01  | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 18     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.21  | 0.35                   | 0.01  | 0.0   | 0.0   | 0.0   |  |  |
| 19     | 0.0   | 0.0                          | 0.06E | 0.0  | 0.0   | 0.0  | 0.32  | 0.06                   | 0.01  | 0.0   | 0.0   | 0.0   |  |  |
| 20     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.09  | 0.0                    | 0.18  | 0.0   | 0.0   | 0.0   |  |  |
| 21     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0                    | 0.0   | 0.13  | 0.0   | 0.0   |  |  |
| 22     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.02                   | 0.03  | 0.38E | 0.0 T | 0.0   |  |  |
| 23     | 0.0   | 0.0                          | 0.02E | 0.0  | 0.0   | 0.0  | 0.0 T | 0.0                    | 0.04E | 0.11  | 0.0   | 0.01E |  |  |
| 24     | 0.0   | 0.0                          | 0.0 T | 0.0  | 0.0   | 0.0  | 0.02  | 0.0                    | 0.01E | 0.49  | 0.0   | 0.0   |  |  |
| 25     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.01  | 0.0                    | 0.0 T | 0.05E | 0.0   | 0.01S |  |  |
| 26     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.20 | 0.06E | 0.0                    | 0.0   | 0.0   | 0.0   | 0.03S |  |  |
| 27     | 0.06S | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.19E | 0.0                    | 0.0 T | 0.01  | 0.0   | 0.0   |  |  |
| 28     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.36E | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| 29     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.17E | 0.0                    | 0.0   | 0.71E | 0.0   | 0.0   |  |  |
| 30     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.09  | 0.0                    | 0.0   | 0.17E | 0.0   | 0.0   |  |  |
| 31     | 0.0   | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 T | 0.0                    | 0.0   | 0.0   | 0.0   | 0.0   |  |  |
| TOTAL  | 1.19  | 0.0                          | 0.19  | 0.0  | 0.06  | 0.23 | 3.23  | 2.15                   | 1.80  | 2.01  | 0.01  | 0.15  |  |  |
| STA AV | 0.38  | 0.57                         | 0.70  | 0.15 | 0.11  | 0.41 | 2.86  | 3.36                   | 1.20  | 0.94  | 0.32  | 0.48  |  |  |

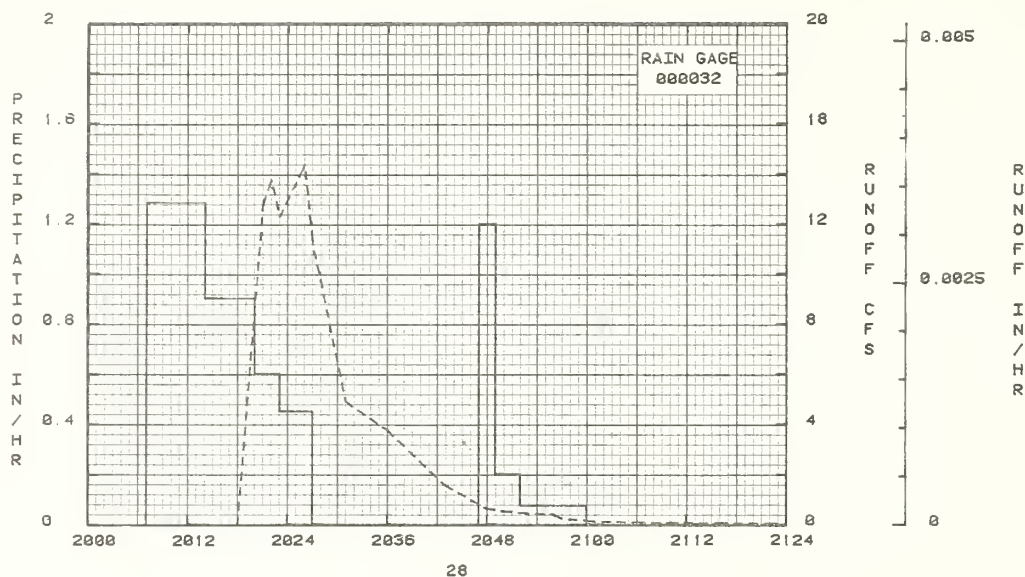
NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV are based on 1968-74 data.

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-8 |     |     |     |     |     |       |        |        |        |        |     |     |
|--|-----|-----|-----|-----|-----|-------|--------|--------|--------|--------|-----|-----|
| Day  | Jan | Feb | Mar | Apr | May | Jun   | Jul    | Aug    | Sep    | Oct    | Nov | Dec |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 1.014E | 0.0    | 0.0    | 0.0 | 0.0 |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 3.942E | 0.0    | 0.0 | 0.0 |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.016  | 0.0    | 0.0    | 0.0 | 0.0 |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.097  | 0.0    | 0.0    | 0.0 | 0.0 |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 4.827E | 0.0    | 0.0    | 0.0 | 0.0 |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.064  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.016  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 1.641E | 0.0 | 0.0 |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 2.124E | 0.0    | 0.0 | 0.0 |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.129  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0067 | 0.1921 | 0.2022 | 0.0529 | 0.0 | 0.0 |
| INCHES   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.001  | 0.037  | 0.038  | 0.010  | 0.0 | 0.0 |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.004 | 0.040  | 0.121  | 0.014  | 0.003  | 0.0 | 0.0 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV are based on 8 yr only (1966, 1968-74).

| 1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-8  |          |          |           |        |           |          |        |        |        |          |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF JULY 28, 1974   |          |          |           |        |           |          |        |        |        |          |  |
| RG 000032  |          |          | RG 000032 |        |           |          |        |        |        |          |  |
| 7-28   | 0.0      | 0.0      | 7-28      | 2007   | 0.0       | 0.0      | 7-28   | 2018   | 0.0    | 0.0      |  |
|  |          |          |           | 2014   | 1.2857    | 0.15     |        | 2021   | 12.802 | 0.0001   |  |
|  |          |          |           | 2020   | 0.9000    | 0.24     |        | 2022   | 13.752 | 0.0001   |  |
|  |          |          |           | 2023   | 0.6000    | 0.27     |        | 2023   | 12.277 | 0.0002   |  |
|  |          |          |           | 2027   | 0.4500    | 0.30     |        | 2026   | 14.382 | 0.0004   |  |
| WATERSHED CONDITIONS:<br>Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%. |          |          |           | 2047   | 0.0       | 0.30     |        | 2027   | 11.200 | 0.0004   |  |
|  |          |          |           | 2049   | 1.2000    | 0.34     |        | 2031   | 4.878  | 0.0006   |  |
|  |          |          |           | 2052   | 0.2000    | 0.35     |        | 2036   | 3.738  | 0.0007   |  |
|  |          |          |           | 2100   | 0.0750    | 0.36     |        | 2043   | 1.554  | 0.0007   |  |
|  |          |          |           |        |           |          |        | 2048   | 0.632  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2050   | 0.526  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2053   | 0.431  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2056   | 0.392  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2057   | 0.242  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2101   | 0.115  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2107   | 0.066  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2110   | 0.066  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2116   | 0.044  | 0.0008   |  |
|  |          |          |           |        |           |          |        | 2123   | 0.031  | 0.0008   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



28  
EVENT OF JULY 28, 1974  
TOMBSTONE, ARIZONA W-8

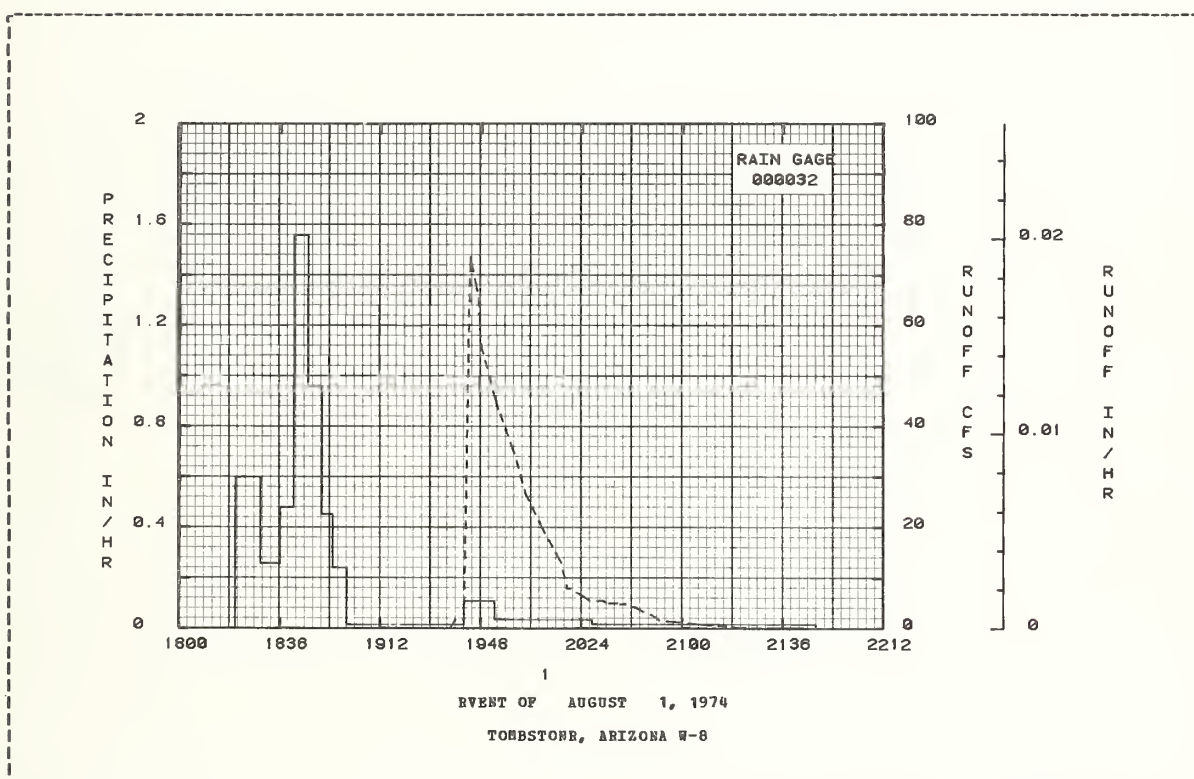
| 1974 SELECTED RUNOFF EVENT |           |          |          |           |           | TOMBSTONE, ARIZONA W-8 |        |        |        |          |
|----------------------------|-----------|----------|----------|-----------|-----------|------------------------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS      |           |          | RAINFALL |           |           | RUNOFF                 |        |        |        |          |
| Date                       | Rainfall  | Runoff   | Date     | Time      | Intensity | Acc.                   | Date   | Time   | Rate   | Acc.     |
| No-Day                     | (inches)  | (inches) | No-Day   | of Day    | (in/hr)   | (inches)               | No-Day | of Day | (cfs)  | (inches) |
| EVENT OF AUGUST 1, 1974    |           |          |          |           |           |                        |        |        |        |          |
| 8- 1                       | RG 000032 |          | 8- 1     | RG 000032 |           |                        | 8- 1   | 1937   | 0.0    | 0.0      |
|                            | 0.0       | 0.0      |          | 1820      | 0.0       | 0.0                    |        | 1939   | 1.815  | 0.0      |
|                            |           |          |          | 1829      | 0.6000    | 0.09                   |        | 1942   | 1.815  | 0.0      |
|                            |           |          |          | 1836      | 0.2571    | 0.12                   |        | 1944   | 73.608 | 0.0004   |
|                            |           |          |          | 1841      | 0.4800    | 0.16                   |        | 1946   | 68.279 | 0.0010   |
|                            |           |          |          | 1846      | 1.5600    | 0.29                   |        | 1947   | 65.305 | 0.0013   |
|                            |           |          |          | 1851      | 0.9600    | 0.37                   |        | 1948   | 55.843 | 0.0015   |
|                            |           |          |          | 1855      | 0.4500    | 0.40                   |        | 1951   | 49.896 | 0.0022   |
|                            |           |          |          | 1900      | 0.2400    | 0.42                   |        | 1953   | 45.609 | 0.0026   |
|                            |           |          |          | 1942      | 0.0143    | 0.43                   |        | 1954   | 43.369 | 0.0028   |
|                            |           |          |          | 1953      | 0.1091    | 0.45                   |        | 1955   | 42.327 | 0.0030   |
|                            |           |          |          | 2028      | 0.0343    | 0.47                   |        | 2000   | 34.618 | 0.0038   |
|                            |           |          |          | 2107      | 0.0154    | 0.48                   |        | 2004   | 26.659 | 0.0043   |
|                            |           |          |          | 2148      | 0.0146    | 0.49                   |        | 2011   | 18.827 | 0.0050   |
|                            |           |          |          |           |           |                        |        | 2017   | 12.934 | 0.0054   |
|                            |           |          |          |           |           |                        |        | 2019   | 7.840  | 0.0055   |
|                            |           |          |          |           |           |                        |        | 2020   | 7.840  | 0.0056   |
|                            |           |          |          |           |           |                        |        | 2024   | 6.515  | 0.0057   |
|                            |           |          |          |           |           |                        |        | 2027   | 5.492  | 0.0058   |
|                            |           |          |          |           |           |                        |        | 2032   | 5.492  | 0.0059   |
|                            |           |          |          |           |           |                        |        | 2033   | 5.078  | 0.0059   |
|                            |           |          |          |           |           |                        |        | 2034   | 4.997  | 0.0059   |
|                            |           |          |          |           |           |                        |        | 2037   | 4.959  | 0.0060   |
|                            |           |          |          |           |           |                        |        | 2038   | 4.800  | 0.0060   |
|                            |           |          |          |           |           |                        |        | 2040   | 4.800  | 0.0061   |
|                            |           |          |          |           |           |                        |        | 2044   | 3.947  | 0.0061   |
|                            |           |          |          |           |           |                        |        | 2051   | 2.026  | 0.0062   |
|                            |           |          |          |           |           |                        |        | 2052   | 1.534  | 0.0062   |
|                            |           |          |          |           |           |                        |        | 2057   | 1.260  | 0.0063   |
|                            |           |          |          |           |           |                        |        | 2120   | 0.146  | 0.0063   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



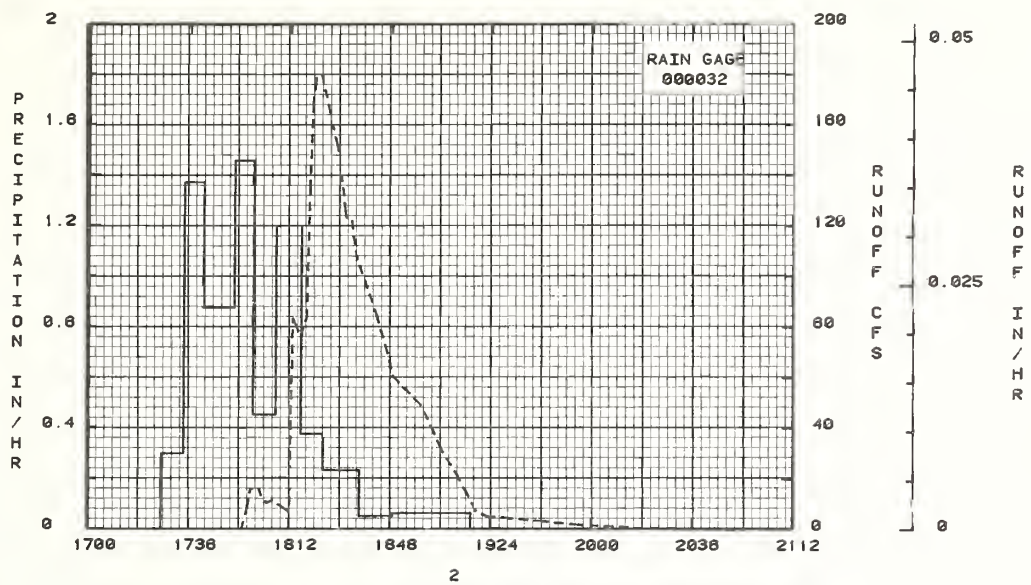
| 1974 SELECTED RUNOFF EVENT          |          |          |          |        |           | TOMBSTONE, ARIZONA W-8 |        |        |       |          |
|-------------------------------------|----------|----------|----------|--------|-----------|------------------------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS               |          |          | RAINFALL |        |           | RUNOFF                 |        |        |       |          |
| Date                                | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.                   | Date   | Time   | Rate  | Acc.     |
| Mo-Day                              | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)               | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF AUGUST 1, 1974 (CONTINUED) |          |          |          |        |           |                        |        |        |       |          |
|                                     |          |          |          |        |           |                        | 8- 1   | 2135   | 0.020 | 0.0063   |
|                                     |          |          |          |        |           |                        |        | 2145   | 0.0   | 0.0063   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



| 1974 SELECTED RUNOFF EVENT  |          |          | TOMBSTONE, ARIZONA W-8 |        |           |        |        |         |          |  |  |
|---|----------|----------|------------------------|--------|-----------|--------|--------|---------|----------|--|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL               |        |           | RUNOFF |        |         |          |  |  |
| Date  | Rainfall | Rnnoff   | Date                   | Time   | Intensity | Date   | Time   | Rate    | Acc.     |  |  |
| Mo-Day  | (inches) | (inches) | Mo-Day                 | of Day | (in/hr)   | Mo-Day | of Day | (cfs)   | (inches) |  |  |
| EVENT OF SEPTEMBER 2, 1974  |          |          |                        |        |           |        |        |         |          |  |  |
| RG 000032   |          |          | RG 000032              |        |           |        |        |         |          |  |  |
| 9- 2  | 0.0      | 0.0      | 9- 2                   | 1726   | 0.0       | 9- 2   | 1755   | 0.0     | 0.0      |  |  |
|   |          |          |                        | 1734   | 0.3000    |        | 1757   | 8.527   | 0.0      |  |  |
|   |          |          |                        | 1741   | 1.3714    |        | 1758   | 15.691  | 0.0001   |  |  |
|   |          |          |                        | 1752   | 0.8727    |        | 1759   | 16.066  | 0.0002   |  |  |
|   |          |          |                        | 1759   | 1.4571    |        | 1801   | 16.066  | 0.0003   |  |  |
| WATERSHED CONDITIONS:<br>Vegetative cover: approx-<br>imately 33% of the area is<br>dominated by desert shrubs<br>(whitethorn, creosotebush,<br>tarbush) with a crown<br>spread of approximately<br>30% and an understory of<br>grasses with less than 1%<br>basal area. The remaining<br>67% of the area is dominated<br>by grasses (black grama,<br>cnrly mesquite, sideoats<br>grama) with a basal area of<br>about 2.5%, interspersed by<br>desert shrubs with a crown<br>spread of about 5%. |          |          |                        | 1807   | 0.4500    |        | 1802   | 13.204  | 0.0004   |  |  |
|   |          |          |                        | 1816   | 1.2000    |        | 1804   | 10.118  | 0.0005   |  |  |
|   |          |          |                        | 1824   | 0.3750    |        | 1806   | 11.447  | 0.0006   |  |  |
|   |          |          |                        | 1837   | 0.2308    |        | 1812   | 6.654   | 0.0008   |  |  |
|   |          |          |                        | 1849   | 0.0500    |        | 1813   | 83.224  | 0.0010   |  |  |
|   |          |          |                        | 1917   | 0.0643    | 0.91   | 1815   | 78.049  | 0.0017   |  |  |
|   |          |          |                        |        |           |        | 1816   | 76.620  | 0.0020   |  |  |
|   |          |          |                        |        |           |        | 1818   | 84.151  | 0.0027   |  |  |
|   |          |          |                        |        |           |        | 1819   | 137.832 | 0.0032   |  |  |
|   |          |          |                        |        |           |        | 1820   | 170.774 | 0.0039   |  |  |
|   |          |          |                        |        |           |        | 1821   | 178.421 | 0.0046   |  |  |
|   |          |          |                        |        |           |        | 1823   | 179.270 | 0.0062   |  |  |
|   |          |          |                        |        |           |        | 1826   | 163.629 | 0.0084   |  |  |
|   |          |          |                        |        |           |        | 1829   | 149.495 | 0.0104   |  |  |
|   |          |          |                        |        |           |        | 1832   | 122.925 | 0.0122   |  |  |
|   |          |          |                        |        |           |        | 1834   | 121.535 | 0.0132   |  |  |
|   |          |          |                        |        |           |        | 1836   | 106.589 | 0.0142   |  |  |
|   |          |          |                        |        |           |        | 1843   | 84.344  | 0.0171   |  |  |
|   |          |          |                        |        |           |        | 1847   | 69.283  | 0.0184   |  |  |
|   |          |          |                        |        |           |        | 1849   | 60.169  | 0.0190   |  |  |
|   |          |          |                        |        |           |        | 1853   | 55.689  | 0.0200   |  |  |
|   |          |          |                        |        |           |        | 1859   | 48.892  | 0.0213   |  |  |
|   |          |          |                        |        |           |        | 1903   | 39.894  | 0.0221   |  |  |
|   |          |          |                        |        |           |        | 1904   | 37.573  | 0.0223   |  |  |
|   |          |          |                        |        |           |        | 1907   | 30.281  | 0.0227   |  |  |
|   |          |          |                        |        |           |        | 1912   | 21.743  | 0.0233   |  |  |
|   |          |          |                        |        |           |        | 1915   | 15.544  | 0.0235   |  |  |
|   |          |          |                        |        |           |        | 1919   | 7.233   | 0.0237   |  |  |
|   |          |          |                        |        |           |        | 1923   | 4.997   | 0.0238   |  |  |
|   |          |          |                        |        |           |        | 1932   | 4.233   | 0.0240   |  |  |
|   |          |          |                        |        |           |        | 1942   | 3.215   | 0.0241   |  |  |
|   |          |          |                        |        |           |        | 1957   | 1.639   | 0.0243   |  |  |
|   |          |          |                        |        |           |        | 2022   | 0.572   | 0.0244   |  |  |
|   |          |          |                        |        |           |        | 2055   | 0.0     | 0.0245   |  |  |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.000259.



2  
EVENT OF SEPTEMBER 2, 1974  
TOMBSTONE, ARIZONA W-8

## TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 28 sec. N.; Long. 109 deg. 59 min. 40 sec. W.

AREA: 2035.00 acres 3.18 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       | TOMBSTONE, ARIZONA W-11 |       |        |       |        |       |      |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------------------------|-------|--------|-------|--------|-------|------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep                     | Oct   | Nov    | Dec   | Annual |       |      |       |
| 1974  | P | 1.15              | 0.0   | 0.13   | 0.0   | 0.04    | 0.24  | 3.42                                      | 2.32  | 1.58                    | 1.97  | 0.01   | 0.13  | 10.99  |       |      |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.007                                     | 0.047 | 0.019                   | 0.0   | 0.0    | 0.0   | 0.073  |       |      |       |
| STA AV  | P | 0.39              | 0.56  | 0.66   | 0.16  | 0.13    | 0.38  | 2.95                                      | 3.44  | 1.14                    | 0.92  | 0.32   | 0.49  | 11.53  |       |      |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.002 | 0.082                                     | 0.150 | 0.015                   | 0.004 | 0.0    | 0.0   | 0.253  |       |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |                         |       |        |       |        |       |      |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 1 Day                   |       | 2 Days |       | 8 Days |       |      |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date                    | Vol.  | Date   | Vol.  | Date   | Vol.  |      |       |
| 1974  |   | 9-24              | 0.086 | 8- 1   | 0.023 | 8- 1    | 0.023 | 8- 1                                      | 0.023 | 8- 1                    | 0.023 | 7-31   | 0.023 | 7-30   | 0.023 | 7-24 | 0.024 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |                         |       |        |       |        |       |      |       |
|   |   | 9-11              | 0.520 | 9-10   | 0.620 | 9- 9    | 0.750 | 9- 9                                      | 0.770 | 9- 9                    | 0.970 | 9- 9   | 0.970 | 9-10   | 1.460 | 9- 8 | 1.700 |
|   |   | 1964              |       | 1964   |       | 1964    |       | 1964                                      |       | 1964                    |       | 1964   |       | 1964   |       | 1964 |       |

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 10 rain gages, station averages are for 7 yr (1968-74). Runoff Data: Records began 1963, station averages are based on 1966, 1968-74 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |     |       |      |       |      |       |      |       |       |      |       |      |       | TOMBSTONE, ARIZONA W-11 |  |
|-----------------------------------|-----|-------|------|-------|------|-------|------|-------|-------|------|-------|------|-------|-------------------------|--|
|                                   | Day | Jan   | Feb  | Mar   | Apr  | May   | Jun  | Jul   | Aug   | Sep  | Oct   | Nov  | Dec   |                         |  |
|                                   | 1   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.54  | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 2   | 0.09S | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.34E | 0.15  | 0.34 | 0.0   | 0.01 | 0.0   |                         |  |
|                                   | 3   | 0.0 T | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.63  | 0.0   | 0.04 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 4   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.08  | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 5   | 0.03E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.09E |                         |  |
|                                   | 6   | 0.05E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.05  | 0.0   | 0.20 | 0.11  | 0.0  | 0.0   |                         |  |
|                                   | 7   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.17  | 0.0   | 0.0  | 0.06  | 0.0  | 0.0   |                         |  |
|                                   | 8   | 0.41E | 0.0  | 0.0   | 0.0  | 0.04E | 0.0  | 0.15  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 9   | 0.52  | 0.0  | 0.08E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 10  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 11  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.02E | 0.0  | 0.0   |                         |  |
|                                   | 12  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.22 | 0.35E | 0.0  | 0.0   |                         |  |
|                                   | 13  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.36E | 0.08E | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 14  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.12E | 0.82  | 0.03 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 15  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.03  | 0.06  | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 16  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.28  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 17  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 18  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.19  | 0.53  | 0.01 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 19  | 0.0   | 0.0  | 0.04E | 0.0  | 0.0   | 0.0  | 0.34  | 0.04  | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 20  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.08  | 0.0   | 0.20 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 21  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.10  | 0.0  | 0.0   |                         |  |
|                                   | 22  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.01 | 0.31E | 0.0  | 0.0   |                         |  |
|                                   | 23  | 0.0   | 0.0  | 0.01E | 0.0  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.05 | 0.18  | 0.0  | 0.01  |                         |  |
|                                   | 24  | 0.0   | 0.0  | 0.0 T | 0.0  | 0.0   | 0.01 | 0.0   | 0.01  | 0.43 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 25  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.01 | 0.0   | 0.01  | 0.04 | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 26  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.22 | 0.02E | 0.0   | 0.0  | 0.0   | 0.0  | 0.03E |                         |  |
|                                   | 27  | 0.05S | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.15E | 0.0   | 0.01 | 0.0 T | 0.0  | 0.0   |                         |  |
|                                   | 28  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.29E | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
|                                   | 29  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.17E | 0.0   | 0.0  | 0.67E | 0.0  | 0.0   |                         |  |
|                                   | 30  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.04  | 0.0   | 0.0  | 0.17E | 0.0  | 0.0   |                         |  |
|                                   | 31  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.01  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |                         |  |
| TOTAL                             |     | 1.15  | 0.0  | 0.13  | 0.0  | 0.04  | 0.24 | 3.42  | 2.32  | 1.58 | 1.97  | 0.01 | 0.13  |                         |  |
| STA AV                            |     | 0.39  | 0.56 | 0.66  | 0.16 | 0.13  | 0.38 | 2.95  | 3.44  | 1.14 | 0.92  | 0.32 | 0.49  |                         |  |

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV are for 7 yr only (1968-74).



| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-11 |     |     |     |     |     |       |        |        |        |       |     |     |
|---|-----|-----|-----|-----|-----|-------|--------|--------|--------|-------|-----|-----|
| Day   | Jan | Feb | Mar | Apr | May | Jun   | Jul    | Aug    | Sep    | Oct   | Nov | Dec |
| 1   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 2.001E | 0.0    | 0.0   | 0.0 | 0.0 |
| 2   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.051  | 0.0   | 0.0 | 0.0 |
| 3   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.564  | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 4   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 5   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 6   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 7   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 8   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 9   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 10  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 11  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 12  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 13  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 14  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 1.197  | 0.0    | 0.0   | 0.0 | 0.0 |
| 15  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.744E | 0.0    | 0.0   | 0.0 | 0.0 |
| 16  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 17  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 18  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.077  | 0.0    | 0.0   | 0.0 | 0.0 |
| 19  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 20  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 21  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 22  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 23  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 24  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 1.539E | 0.0   | 0.0 | 0.0 |
| 25  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 26  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 27  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 28  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.051  | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 29  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.009  | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 30  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| 31  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0 | 0.0 |
| MEAN  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0201 | 0.1296 | 0.0530 | 0.0   | 0.0 | 0.0 |
| INCRS   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.007  | 0.047  | 0.019  | 0.0   | 0.0 | 0.0 |
| STA AV  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.002 | 0.082  | 0.150  | 0.015  | 0.004 | 0.0 | 0.0 |

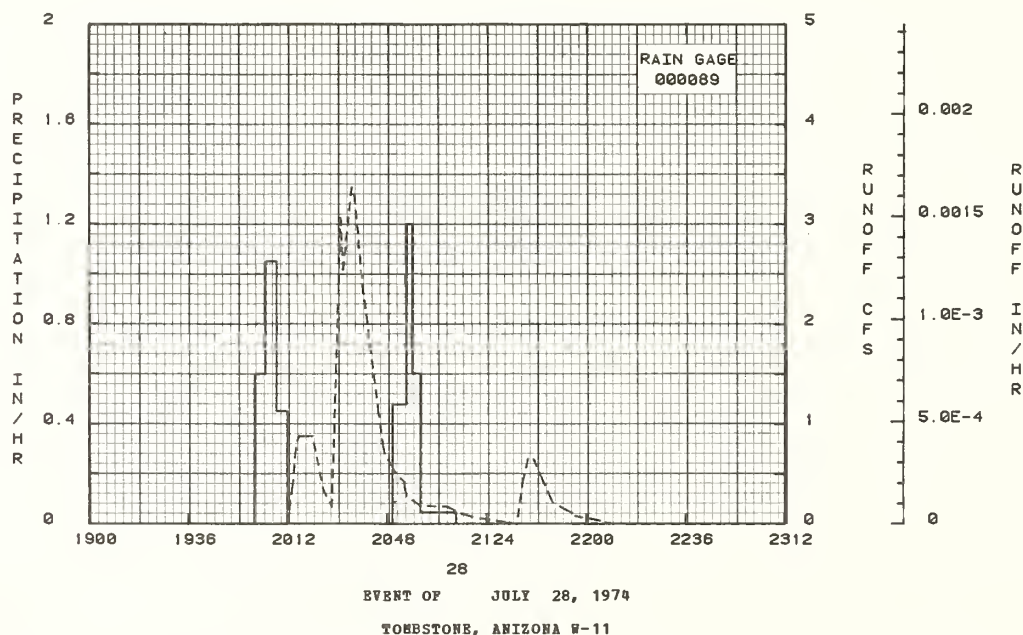
NOTES: To convert mean daily discharge values in CFS to IN/ DAY, multiply by 0.011696. STA AV values are for 8 yr only (1966, 1968-74).

| 1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-11  |                  |          |          |                   |           |          |        |        |       |          |  |
|---|------------------|----------|----------|-------------------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS   |                  |          | RAINFALL |                   |           |          | RUNOFF |        |       |          |  |
| Date  | Rainfall         | Runoff   | Date     | Time              | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day  | (inches)         | (inches) | Mo-Day   | of Day            | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF JULY 28, 1974  |                  |          |          |                   |           |          |        |        |       |          |  |
| 7-28  | RG 000089<br>0.0 | 0.0      | 7-28     | RG 000089<br>2000 | 0.0       | 0.0      | 7-28   | 2012   | 0.0   | 0.0      |  |
|   |                  |          |          | 2004              | 0.6000    | 0.04     |        | 2014   | 0.436 | 0.0      |  |
|   |                  |          |          | 2008              | 1.0500    | 0.11     |        | 2015   | 0.765 | 0.0      |  |
|   |                  |          |          | 2012              | 0.4500    | 0.14     |        | 2016   | 0.878 | 0.0      |  |
|   |                  |          |          | 2050              | 0.0       | 0.14     |        | 2021   | 0.878 | 0.0      |  |
| WATERSHED CONDITIONS:<br>Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover. |                  |          |          | 2055              | 0.4800    | 0.18     |        | 2025   | 0.333 | 0.0001   |  |
|   |                  |          |          | 2057              | 1.2000    | 0.22     |        | 2026   | 0.284 | 0.0001   |  |
|   |                  |          |          | 2100              | 0.6000    | 0.25     |        | 2028   | 0.167 | 0.0001   |  |
|   |                  |          |          | 2113              | 0.0462    | 0.26     |        | 2031   | 3.062 | 0.0001   |  |
|   |                  |          |          |                   |           |          |        | 2032   | 2.540 | 0.0001   |  |
|   |                  |          |          |                   |           |          |        | 2035   | 3.373 | 0.0002   |  |
|   |                  |          |          |                   |           |          |        | 2036   | 3.279 | 0.0002   |  |
|   |                  |          |          |                   |           |          |        | 2039   | 2.380 | 0.0003   |  |
|   |                  |          |          |                   |           |          |        | 2045   | 1.066 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2047   | 0.699 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2051   | 0.509 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2054   | 0.416 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2055   | 0.284 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2100   | 0.179 | 0.0004   |  |
|   |                  |          |          |                   |           |          |        | 2110   | 0.173 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2115   | 0.104 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2119   | 0.072 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2125   | 0.035 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2130   | 0.016 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2131   | 0.009 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2132   | 0.013 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2135   | 0.004 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2137   | 0.416 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2139   | 0.648 | 0.0005   |  |
|   |                  |          |          |                   |           |          |        | 2141   | 0.648 | 0.0005   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.

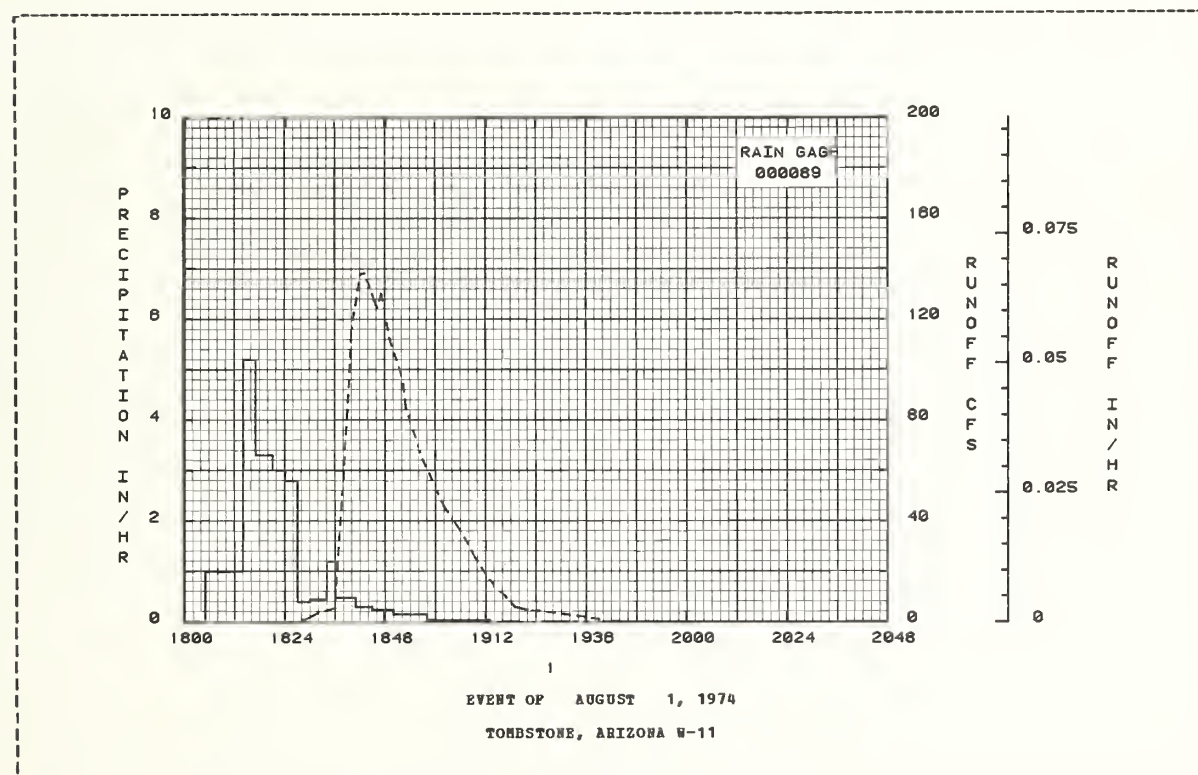
| 1974                               | SELECTED RUNOFF EVENT |          |          |        |           |          | TOMBSTONE, ARIZONA W-11 |        |       |          |  |
|------------------------------------|-----------------------|----------|----------|--------|-----------|----------|-------------------------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS              |                       |          | RAINFALL |        |           |          | RUNOFF                  |        |       |          |  |
| Date                               | Rainfall              | Runoff   | Date     | Time   | Intensity | Acc.     | Date                    | Time   | Rate  | Acc.     |  |
| Mo-Day                             | (inches)              | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day                  | of Day | (cfs) | (inches) |  |
| EVENT OF JULY 28, 1974 (CONTINUED) |                       |          |          |        |           |          |                         |        |       |          |  |
|                                    |                       |          |          |        |           |          | 7-28                    | 2145   | 0.387 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2148   | 0.211 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2155   | 0.114 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2156   | 0.083 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2202   | 0.045 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2205   | 0.032 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2207   | 0.013 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2215   | 0.0   | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2312   | 0.0   | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2313   | 0.015 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2315   | 0.051 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2318   | 0.109 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2320   | 0.124 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2321   | 0.134 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2325   | 0.134 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2326   | 0.109 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2328   | 0.100 | 0.0005   |  |
|                                    |                       |          |          |        |           |          |                         | 2331   | 0.100 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2336   | 0.051 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2341   | 0.032 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2347   | 0.015 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2350   | 0.179 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2351   | 0.369 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2355   | 0.369 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2357   | 0.232 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2358   | 0.192 | 0.0006   |  |
|                                    |                       |          |          |        |           |          |                         | 2359   | 0.416 | 0.0006   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.



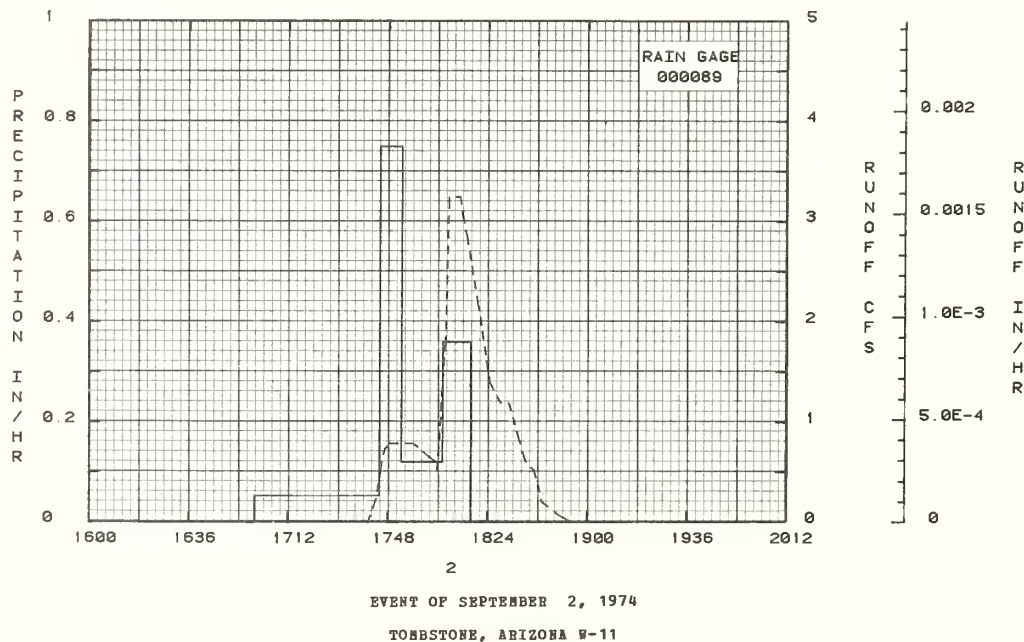
| 1974  |          |          | TOMBSTONE, ARIZONA W-11 |        |           |          |        |        |         |          |
|---|----------|----------|-------------------------|--------|-----------|----------|--------|--------|---------|----------|
| SELECTED RUNOFF EVENT   |          |          |                         |        |           |          |        |        |         |          |
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                |        |           | RUNOFF   |        |        |         |          |
| Date  | Rainfall | Runoff   | Date                    | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                  | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 1, 1974   |          |          |                         |        |           |          |        |        |         |          |
| RG 000089   |          |          | RG 000089               |        |           |          |        |        |         |          |
| 8- 1  | 0.0      | 0.0      | 8- 1                    | 1805   | 0.0       | 0.0      | 8- 1   | 1823   | 0.0     | 0.0      |
|   |          |          |                         | 1814   | 1.0000    | 0.15     |        | 1826   | 0.487   | 0.0      |
|   |          |          |                         | 1817   | 5.2000    | 0.41     |        | 1829   | 1.279   | 0.0      |
|   |          |          |                         | 1821   | 3.3000    | 0.63     |        | 1832   | 3.704   | 0.0001   |
|   |          |          |                         | 1824   | 3.0000    | 0.78     |        | 1836   | 5.663   | 0.0002   |
| WATERSHED CONDITIONS:<br>Vegetative cover: approx-<br>imately 20% of the area is<br>dominated by desert shrubs<br>(whitethorn, creosotebush,<br>tarbush) with a crown<br>spread of approximately<br>30% cover and an understory<br>of grasses with basal area<br>of less than 1%. The<br>remaining 80% of the area<br>supports a grass cover<br>(black grama, curly mesquite,<br>sideoats grama) with basal<br>cover of about 2.5% inter-<br>spersed with desert shrubs<br>averaging less than 5%<br>crown cover. |          |          |                         | 1827   | 2.8000    | 0.92     |        | 1839   | 84.192  | 0.0013   |
|   |          |          |                         | 1830   | 0.4000    | 0.94     |        | 1840   | 116.756 | 0.0021   |
|   |          |          |                         | 1834   | 0.4500    | 0.97     |        | 1842   | 138.097 | 0.0042   |
|   |          |          |                         | 1836   | 1.2000    | 1.01     |        | 1843   | 138.343 | 0.0053   |
|   |          |          |                         | 1841   | 0.4800    | 1.05     |        | 1846   | 124.574 | 0.0085   |
|   |          |          |                         | 1845   | 0.3000    | 1.07     |        | 1847   | 130.279 | 0.0095   |
|   |          |          |                         | 1850   | 0.2400    | 1.09     |        | 1849   | 112.263 | 0.0115   |
|   |          |          |                         | 1858   | 0.1500    | 1.11     |        | 1852   | 97.160  | 0.0141   |
|   |          |          |                         | 1913   | 0.0400    | 1.12     |        | 1853   | 84.377  | 0.0148   |
|   |          |          |                         |        |           |          |        | 1857   | 64.329  | 0.0172   |
|   |          |          |                         |        |           |          |        | 1902   | 45.902  | 0.0195   |
|   |          |          |                         |        |           |          |        | 1906   | 36.032  | 0.0208   |
|   |          |          |                         |        |           |          |        | 1910   | 24.049  | 0.0218   |
|   |          |          |                         |        |           |          |        | 1913   | 16.524  | 0.0223   |
|   |          |          |                         |        |           |          |        | 1917   | 9.648   | 0.0227   |
|   |          |          |                         |        |           |          |        | 1919   | 5.924   | 0.0228   |
|   |          |          |                         |        |           |          |        | 1922   | 4.683   | 0.0229   |
|   |          |          |                         |        |           |          |        | 1923   | 4.455   | 0.0230   |
|   |          |          |                         |        |           |          |        | 1925   | 4.305   | 0.0230   |
|   |          |          |                         |        |           |          |        | 1942   | 0.466   | 0.0234   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000487.



| 1974 SELECTED RUNOFF EVENT  |           |          |          |           |           | TOMBSTONE, ARIZONA W-11 |        |        |       |          |
|---|-----------|----------|----------|-----------|-----------|-------------------------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS   |           |          | RAINFALL |           |           |                         | RUNOFF |        |       |          |
| Date  | Rainfall  | Runoff   | Date     | Time      | Intensity | Acc.                    | Date   | Time   | Rate  | Acc.     |
| Mo-Day  | (inches)  | (inches) | Mo-Day   | of Day    | (in/hr)   | (inches)                | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF SEPTEMBER 2, 1974  |           |          |          |           |           |                         |        |        |       |          |
| 9- 2  | RG 000089 | 0.0      | 9- 2     | RG 000089 | 0.0       | 0.0                     | 9- 2   | 1741   | 0.0   | 0.0      |
|   | 0.0       | 0.0      |          | 1700      | 0.0       | 0.0                     |        | 1744   | 0.239 | 0.0      |
|   |           |          |          | 1745      | 0.0533    | 0.04                    |        | 1746   | 0.611 | 0.0      |
|   |           |          |          | 1753      | 0.7500    | 0.14                    |        | 1747   | 0.738 | 0.0      |
|   |           |          |          | 1808      | 0.1200    | 0.17                    |        | 1748   | 0.765 | 0.0      |
|   |           |          |          | 1818      | 0.3600    | 0.23                    |        | 1749   | 0.793 | 0.0      |
| WATERSHED CONDITIONS:<br>Vegetative cover: approx-<br>imately 20% of the area is<br>dominated by desert shrubs<br>(whitethorn, creosotebush,<br>tarbush) with a crown<br>spread of approximately<br>30% cover and an understory<br>of grasses with basal area<br>of less than 1%. The<br>remaining 80% of the area<br>supports a grass cover<br>(black grama, curly mesquite,<br>sideoats grama) with basal<br>cover of about 2.5% inter-<br>spersed with desert shrubs<br>averaging less than 5%<br>crown cover. |           |          |          |           |           |                         |        | 1757   | 0.793 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1759   | 0.752 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1801   | 0.699 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1805   | 0.611 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1806   | 0.520 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1809   | 1.861 | 0.0001   |
|   |           |          |          |           |           |                         |        | 1810   | 3.246 | 0.0002   |
|   |           |          |          |           |           |                         |        | 1814   | 3.246 | 0.0003   |
|   |           |          |          |           |           |                         |        | 1815   | 3.062 | 0.0003   |
|   |           |          |          |           |           |                         |        | 1817   | 2.766 | 0.0003   |
|   |           |          |          |           |           |                         |        | 1821   | 2.124 | 0.0004   |
|   |           |          |          |           |           |                         |        | 1825   | 1.393 | 0.0005   |
|   |           |          |          |           |           |                         |        | 1829   | 1.187 | 0.0005   |
|   |           |          |          |           |           |                         |        | 1832   | 1.187 | 0.0005   |
|   |           |          |          |           |           |                         |        | 1836   | 0.779 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1838   | 0.600 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1841   | 0.520 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1844   | 0.198 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1850   | 0.068 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1854   | 0.013 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1857   | 0.003 | 0.0006   |
|   |           |          |          |           |           |                         |        | 1901   | 0.0   | 0.0006   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000487.





## TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 42 min. 46 sec. N.; Long. 110 deg. 02 min. 25 sec. W.

AREA: 5912.00 acres 9.24 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       |         |       |          |       | TOMBSTONE, ARIZONA W-15 |       |        |       |        |      |  |  |  |  |  |  |  |  |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|---------|-------|----------|-------|-------------------------|-------|--------|-------|--------|------|--|--|--|--|--|--|--|--|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual                  |       |        |       |        |      |  |  |  |  |  |  |  |  |
| 1974  | P | 1.23              | 0.0   | 0.14   | 0.0   | 0.05    | 0.22  | 4.40                                      | 3.24  | 1.86    | 2.29  | 0.01     | 0.24  | 13.68                   |       |        |       |        |      |  |  |  |  |  |  |  |  |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.099                                     | 0.170 | 0.066   | 0.012 | 0.0      | 0.0   | 0.348                   |       |        |       |        |      |  |  |  |  |  |  |  |  |
| STA AV  | P | 0.45              | 0.50  | 0.64   | 0.14  | 0.15    | 0.40  | 3.40                                      | 3.35  | 1.24    | 0.69  | 0.30     | 0.96  | 12.21                   |       |        |       |        |      |  |  |  |  |  |  |  |  |
|   | Q | 0.0               | 0.0   | 0.002  | 0.0   | 0.0     | 0.003 | 0.039                                     | 0.120 | 0.018   | 0.001 | 0.0      | 0.0   | 0.182                   |       |        |       |        |      |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |         |       |          |       |                         |       |        |       |        |      |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day                   |       | 2 Days |       | 8 Days |      |  |  |  |  |  |  |  |  |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date                    | Vol.  | Date   | Vol.  | Date   | Vol. |  |  |  |  |  |  |  |  |
| 1974  |   | 8- 5              | 0.103 | 8- 5   | 0.081 | 8- 5    | 0.096 | 8- 5                                      | 0.100 | 8- 5    | 0.100 | 8- 4     | 0.100 | 8- 3                    | 0.100 | 7-28   | 0.205 |        |      |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |         |       |          |       |                         |       |        |       |        |      |  |  |  |  |  |  |  |  |
|   |   | 8-10              | 0.211 | 8-10   | 0.144 | 8-10    | 0.180 | 8-19                                      | 0.200 | 8-19    | 0.200 | 8-19     | 0.230 | 8-19                    | 0.250 | 8-19   | 0.250 |        |      |  |  |  |  |  |  |  |  |
|   |   | 1971              |       | 1971   |       | 1971    |       | 1966                                      |       | 1966    |       | 1966     |       | 1966                    |       | 1966   |       |        |      |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1974 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |       |      |       |      |       |       |       |       |       |       |       |       |       | TOMBSTONE, ARIZONA W-15 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb  | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |       |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.23E | 0.0 T | 0.0   | 0.0   | 0.0   |       |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.09S | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.26E | 0.48  | 0.70E | 0.0   | 0.0 T | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.02E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.23E | 0.0 T | 0.03E | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.15  | 0.10  | 0.0   | 0.0   | 0.0   | 0.02  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.03E | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.87  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.16E |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.06  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 E | 0.0   | 0.08  | 0.06E | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.09E | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.39E | 0.0  | 0.0 T | 0.0  | 0.05E | 0.0   | 0.0   | 0.08E | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.56  | 0.0  | 0.09E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.20E | 0.46  | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.42E | 0.44  | 0.0 T | 0.01  | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.26E | 0.08  | 0.06E | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.04E | 0.17  | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.29E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.06  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.44E | 0.18E | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.0   | 0.0  | 0.01E | 0.0  | 0.0   | 0.0   | 0.0   | 0.39E | 0.59  | 0.07E | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.15E | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.01  | 0.0   | 0.0 T | 0.14  | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.49  | 0.01E | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0   | 0.0  | 0.04E | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.04E | 0.05  | 0.0   | 0.01E | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0   | 0.0  | 0.0 T | 0.0  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.04  | 0.55  | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.07E | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.02S |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.15E | 0.06E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.03S |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.08S | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.22E | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 1.24E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.14E | 0.0   | 0.0   | 0.81E | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.0   | 0.23E | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01E | 0.0   | 0.0   | 0.0   |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 1.23  | 0.0  | 0.14  | 0.0  | 0.05  | 0.22  | 4.40  | 3.24  | 1.86  | 2.29  | 0.01  | 0.24  |       |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 0.45  | 0.50 | 0.64  | 0.14 | 0.15  | 0.40  | 3.40  | 3.35  | 1.24  | 0.69  | 0.30  | 0.96  |       |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on 10 yr record period (1965-74).

| 1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-15 |     |     |       |     |     |       |        |         |        |        |     |     |
|---|-----|-----|-------|-----|-----|-------|--------|---------|--------|--------|-----|-----|
| Day   | Jan | Feb | Mar   | Apr | May | Jun   | Jul    | Aug     | Sep    | Oct    | Nov | Dec |
| 1   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 2   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 1.490   | 12.767 | 0.0    | 0.0 | 0.0 |
| 3   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 4   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 5   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 24.963E | 0.0    | 0.0    | 0.0 | 0.0 |
| 6   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 7   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 8   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 9   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 10  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 11  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 12  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 13  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 14  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 15  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 16  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 17  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 18  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 19  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 15.897  | 0.0    | 0.0    | 0.0 | 0.0 |
| 20  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 21  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 22  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 3.080  | 0.0 | 0.0 |
| 23  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 24  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 3.676  | 0.0    | 0.0 | 0.0 |
| 25  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 26  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 27  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 28  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 22.628 | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 29  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 1.913E | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 30  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| 31  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    | 0.0 | 0.0 |
| MEAN  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.7916 | 1.3661  | 0.5481 | 0.0994 | 0.0 | 0.0 |
| INCHES  | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 0.099  | 0.170   | 0.066  | 0.012  | 0.0 | 0.0 |
| STA AV  | 0.0 | 0.0 | 0.002 | 0.0 | 0.0 | 0.003 | 0.039  | 0.120   | 0.018  | 0.001  | 0.0 | 0.0 |

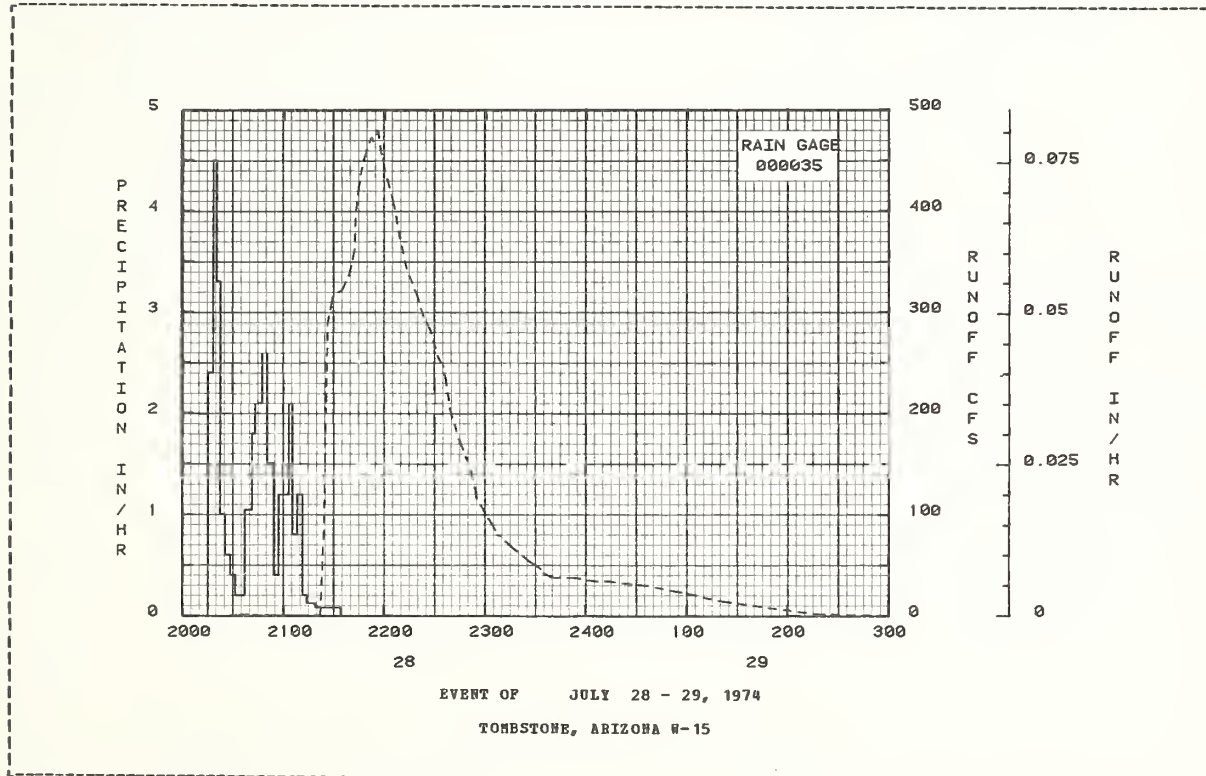
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004026. STA AV are based on 10 yr record period (1965-1974).

| 1974 SELECTED RUNOFF EVENT   |          |          |           |        |           | TOMBSTONE, ARIZONA W-15 |        |         |         |          |  |  |
|--|----------|----------|-----------|--------|-----------|-------------------------|--------|---------|---------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |                         | RUNOFF |         |         |          |  |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.                    | Date   | Time    | Rate    | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches)                | Mo-Day | of Day  | (cfs)   | (inches) |  |  |
| EVENT OF JULY 28 - 29, 1974  |          |          |           |        |           |                         |        |         |         |          |  |  |
| RG 000035  |          |          | RG 000035 |        |           |                         |        |         |         |          |  |  |
| 7-28   | 0.0      | 0.0      | 7-28      | 2015   | 0.0       | 0.0                     | 7-28   | 2026    | 0.0     | 0.0      |  |  |
|  |          |          |           | 2018   | 2.4000    | 0.12                    |        | 2029    | 0.188   | 0.0      |  |  |
|  |          |          |           | 2020   | 4.5000    | 0.27                    |        | 2030    | 0.526   | 0.0      |  |  |
|  |          |          |           | 2022   | 3.3000    | 0.38                    |        | 2032    | 0.937   | 0.0      |  |  |
|  |          |          |           | 2025   | 1.0000    | 0.43                    |        | 2034    | 1.205   | 0.0      |  |  |
| WATERSHED CONDITIONS:<br>Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sideoats grama and curly mesquite) of approximately 2% basal area. |          |          |           | 2028   | 0.6000    | 0.46                    |        | 2039    | 1.242   | 0.0      |  |  |
|  |          |          |           | 2031   | 0.4000    | 0.48                    |        | 2042    | 0.922   | 0.0      |  |  |
|  |          |          |           | 2037   | 0.2000    | 0.50                    |        | 2047    | 0.584   | 0.0      |  |  |
|  |          |          |           | 2041   | 1.0500    | 0.57                    |        | 2049    | 0.364   | 0.0001   |  |  |
|  |          |          |           | 2043   | 1.8000    | 0.63                    |        | 2056    | 0.207   | 0.0001   |  |  |
|  |          |          |           | 2047   | 2.1000    | 0.77                    |        | 2059    | 0.188   | 0.0001   |  |  |
|  |          |          |           | 2050   | 2.6000    | 0.90                    |        | 2101    | 0.130   | 0.0001   |  |  |
|  |          |          |           | 2054   | 1.5000    | 1.00                    |        | 2106    | 0.146   | 0.0001   |  |  |
|  |          |          |           | 2057   | 0.4000    | 1.02                    |        | 2109    | 0.207   | 0.0001   |  |  |
|  |          |          |           | 2103   | 1.2000    | 1.14                    |        | 2110    | 0.279   | 0.0001   |  |  |
|  |          |          |           | 2105   | 2.1000    | 1.21                    |        | 2114    | 0.364   | 0.0001   |  |  |
|  |          |          |           | 2108   | 0.8000    | 1.25                    |        | 2122    | 0.364   | 0.0001   |  |  |
|  |          |          |           | 2111   | 1.2000    | 1.31                    |        | 2124    | 84.173  | 0.0003   |  |  |
|  |          |          |           | 2114   | 0.2000    | 1.32                    |        | 2126    | 288.107 | 0.0014   |  |  |
|  |          |          |           | 2119   | 0.1200    | 1.33                    |        | 2128    | 305.038 | 0.0030   |  |  |
|  |          |          | 2134      | 0.0800 | 1.35      |                         | 2129   | 314.874 | 0.0039  |          |  |  |
|  |          |          |           |        |           |                         | 2135   | 322.503 | 0.0092  |          |  |  |
|  |          |          |           |        |           |                         | 2139   | 338.002 | 0.0129  |          |  |  |
|  |          |          |           |        |           |                         | 2142   | 362.445 | 0.0159  |          |  |  |
|  |          |          |           |        |           |                         | 2143   | 401.193 | 0.0169  |          |  |  |
|  |          |          |           |        |           |                         | 2145   | 428.375 | 0.0192  |          |  |  |
|  |          |          |           |        |           |                         | 2148   | 453.472 | 0.0229  |          |  |  |
|  |          |          |           |        |           |                         | 2152   | 472.311 | 0.0281  |          |  |  |
|  |          |          |           |        |           |                         | 2153   | 468.436 | 0.0294  |          |  |  |
|  |          |          |           |        |           |                         | 2156   | 478.867 | 0.0334  |          |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.

| 1974 SELECTED RUNOFF EVENT              |          |          | TOMBSTONE, ARIZONA W-15 |        |           |          |        |        |         |
|---|----------|----------|-------------------------|--------|-----------|----------|--------|--------|---------|
| ANTECEDENT CONDITIONS                   |          |          | RAINFALL                |        |           | RUNOFF   |        |        |         |
| Date                                    | Rainfall | Runoff   | Date                    | Time   | Intensity | Acc.     | Date   | Time   | Rate    |
| Mo-Day                                  | (inches) | (inches) | Mo-Day                  | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   |
| EVENT OF JULY 28 - 29, 1974 (CONTINUED) |          |          |                         |        |           |          |        |        |         |
|   |          |          |                         |        |           |          | 7-28   | 2158   | 455.201 |
|   |          |          |                         |        |           |          |        | 2159   | 450.909 |
|   |          |          |                         |        |           |          |        | 2200   | 438.332 |
|   |          |          |                         |        |           |          |        | 2203   | 422.653 |
|   |          |          |                         |        |           |          |        | 2206   | 401.610 |
|   |          |          |                         |        |           |          |        | 2209   | 371.982 |
|   |          |          |                         |        |           |          |        | 2213   | 342.533 |
|   |          |          |                         |        |           |          |        | 2219   | 317.258 |
|   |          |          |                         |        |           |          |        | 2223   | 295.738 |
|   |          |          |                         |        |           |          |        | 2228   | 278.391 |
|   |          |          |                         |        |           |          |        | 2232   | 254.188 |
|   |          |          |                         |        |           |          |        | 2235   | 245.783 |
|   |          |          |                         |        |           |          |        | 2237   | 227.184 |
|   |          |          |                         |        |           |          |        | 2239   | 203.100 |
|   |          |          |                         |        |           |          |        | 2245   | 170.790 |
|   |          |          |                         |        |           |          |        | 2252   | 141.580 |
|   |          |          |                         |        |           |          |        | 2255   | 115.350 |
|   |          |          |                         |        |           |          |        | 2302   | 95.499  |
|   |          |          |                         |        |           |          |        | 2306   | 84.352  |
|   |          |          |                         |        |           |          |        | 2308   | 79.166  |
|   |          |          |                         |        |           |          |        | 2309   | 78.808  |
|   |          |          |                         |        |           |          |        | 2314   | 70.283  |
|   |          |          |                         |        |           |          |        | 2319   | 63.309  |
|   |          |          |                         |        |           |          |        | 2326   | 54.069  |
|   |          |          |                         |        |           |          |        | 2333   | 45.878  |
|   |          |          |                         |        |           |          |        | 2335   | 41.932  |
|   |          |          |                         |        |           |          |        | 2339   | 38.301  |
|   |          |          |                         |        |           |          |        | 2340   | 37.574  |
|   |          |          |                         |        |           |          |        | 2353   | 37.574  |
|   |          |          |                         |        |           |          |        | 2357   | 36.137  |
|   |          |          |                         |        |           |          | 7-29   | 7      | 33.818  |
|   |          |          |                         |        |           |          |        | 13     | 33.818  |
|   |          |          |                         |        |           |          |        | 27     | 31.034  |
|   |          |          |                         |        |           |          |        | 37     | 29.431  |
|   |          |          |                         |        |           |          |        | 57     | 22.832  |
|   |          |          |                         |        |           |          |        | 122    | 13.753  |
|   |          |          |                         |        |           |          |        | 217    | 1.373   |
|   |          |          |                         |        |           |          |        | 222    | 1.335   |

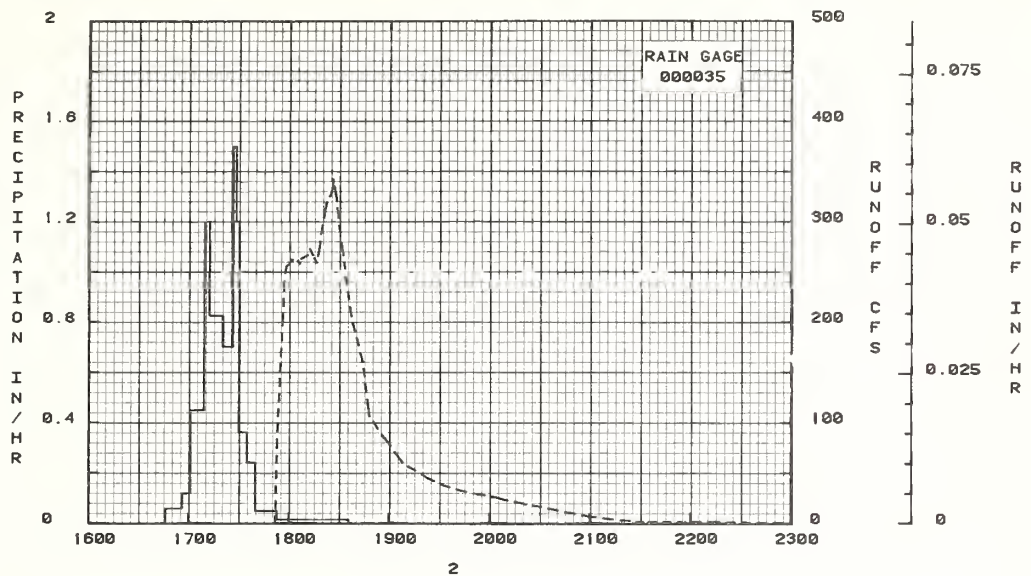
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.



| 1974 SELECTED RUNOFF EVENT   |                      |                    | TOMBSTONE, ARIZONA W-15 |                   |                      |                  |                |                |               |                  |
|------------------------------|----------------------|--------------------|-------------------------|-------------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS        |                      |                    | RAINFALL                |                   |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day               | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day          | Time<br>of Day    | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF SEPTEMBER 2, 1974   |                      |                    |                         |                   |                      |                  |                |                |               |                  |
| 9- 2                         | RG 000035<br>0.03    | 0.0                | 9- 2                    | RG 000035<br>1646 | 0.0                  | 0.0              | 9- 2           | 1752           | 0.0           | 0.0              |
|                              |                      |                    |                         | 1656              | 0.0600               | 0.01             |                | 1753           | 84.173        | 0.0001           |
|                              |                      |                    |                         | 1701              | 0.1200               | 0.02             |                | 1756           | 201.252       | 0.0013           |
|                              |                      |                    |                         | 1705              | 0.4500               | 0.05             |                | 1757           | 241.312       | 0.0019           |
|                              |                      |                    |                         | 1709              | 0.4500               | 0.08             |                | 1758           | 255.202       | 0.0026           |
| WATERSHED CONDITIONS:        |                      |                    |                         |                   |                      |                  |                |                |               |                  |
| Vegetative cover: Desert     |                      |                    |                         | 1712              | 1.2000               | 0.14             | 1802           | 262.354        | 0.0055        |                  |
| shrubs (whitethorn, creosote |                      |                    |                         | 1720              | 0.8250               | 0.25             | 1805           | 260.924        | 0.0077        |                  |
| bush, tarbush) occupy 78% of |                      |                    |                         | 1726              | 0.7000               | 0.32             | 1806           | 258.063        | 0.0085        |                  |
| area with a crown spread of  |                      |                    |                         | 1728              | 1.5000               | 0.37             | 1807           | 263.427        | 0.0092        |                  |
| approximately 30% and an     |                      |                    |                         | 1730              | 1.2000               | 0.41             | 1811           | 257.004        | 0.0122        |                  |
| understory of grasses with   |                      |                    |                         |                   |                      |                  |                |                |               |                  |
| less than 1% basal area. 22% |                      |                    |                         | 1735              | 0.3600               | 0.44             | 1812           | 272.846        | 0.0129        |                  |
| of the area supports a grass |                      |                    |                         | 1740              | 0.2400               | 0.46             | 1814           | 266.290        | 0.0144        |                  |
| cover (black grama, tobosa,  |                      |                    |                         | 1753              | 0.0462               | 0.47             | 1815           | 263.427        | 0.0152        |                  |
| blue grama, sideoats grama   |                      |                    |                         | 1836              | 0.0140               | 0.48             | 1816           | 258.778        | 0.0159        |                  |
| and curly mesquite) of       |                      |                    |                         |                   |                      |                  | 1818           | 273.205        | 0.0174        |                  |
| approximately 2% basal area. |                      |                    |                         |                   |                      |                  |                |                |               |                  |
|                              |                      |                    |                         |                   |                      |                  |                | 1819           | 289.657       | 0.0182           |
|                              |                      |                    |                         |                   |                      |                  |                | 1822           | 318.867       | 0.0207           |
|                              |                      |                    |                         |                   |                      |                  |                | 1825           | 329.360       | 0.0234           |
|                              |                      |                    |                         |                   |                      |                  |                | 1826           | 342.533       | 0.0244           |
|                              |                      |                    |                         |                   |                      |                  |                | 1828           | 321.251       | 0.0262           |
|                              |                      |                    |                         |                   |                      |                  |                | 1829           | 303.488       | 0.0271           |
|                              |                      |                    |                         |                   |                      |                  |                | 1832           | 267.004       | 0.0295           |
|                              |                      |                    |                         |                   |                      |                  |                | 1837           | 205.306       | 0.0328           |
|                              |                      |                    |                         |                   |                      |                  |                | 1844           | 160.358       | 0.0364           |
|                              |                      |                    |                         |                   |                      |                  |                | 1847           | 119.225       | 0.0375           |
|                              |                      |                    |                         |                   |                      |                  |                | 1848           | 105.932       | 0.0379           |
|                              |                      |                    |                         |                   |                      |                  |                | 1857           | 84.352        | 0.0402           |
|                              |                      |                    |                         |                   |                      |                  |                | 1901           | 76.423        | 0.0411           |
|                              |                      |                    |                         |                   |                      |                  |                | 1904           | 68.972        | 0.0418           |
|                              |                      |                    |                         |                   |                      |                  |                | 1908           | 59.672        | 0.0425           |
|                              |                      |                    |                         |                   |                      |                  |                | 1912           | 55.559        | 0.0431           |
|                              |                      |                    |                         |                   |                      |                  |                | 1923           | 44.405        | 0.0447           |
|                              |                      |                    |                         |                   |                      |                  |                | 1932           | 37.574        | 0.0457           |
|                              |                      |                    |                         |                   |                      |                  |                | 1942           | 32.465        | 0.0467           |
|                              |                      |                    |                         |                   |                      |                  |                | 1953           | 28.489        | 0.0476           |
|                              |                      |                    |                         |                   |                      |                  |                | 2004           | 25.186        | 0.0484           |
|                              |                      |                    |                         |                   |                      |                  |                | 2011           | 22.194        | 0.0489           |
|                              |                      |                    |                         |                   |                      |                  |                | 2022           | 18.420        | 0.0495           |
|                              |                      |                    |                         |                   |                      |                  |                | 2031           | 15.619        | 0.0499           |
|                              |                      |                    |                         |                   |                      |                  |                | 2041           | 12.471        | 0.0503           |
|                              |                      |                    |                         |                   |                      |                  |                | 2051           | 9.192         | 0.0506           |
|                              |                      |                    |                         |                   |                      |                  |                | 2059           | 6.653         | 0.0508           |
|                              |                      |                    |                         |                   |                      |                  |                | 2110           | 4.305         | 0.0510           |
|                              |                      |                    |                         |                   |                      |                  |                | 2114           | 3.636         | 0.0510           |
|                              |                      |                    |                         |                   |                      |                  |                | 2124           | 2.026         | 0.0511           |
|                              |                      |                    |                         |                   |                      |                  |                | 2128           | 1.472         | 0.0511           |
|                              |                      |                    |                         |                   |                      |                  |                | 2132           | 1.354         | 0.0511           |
|                              |                      |                    |                         |                   |                      |                  |                | 2135           | 1.242         | 0.0512           |
|                              |                      |                    |                         |                   |                      |                  |                | 2213           | 1.242         | 0.0513           |
|                              |                      |                    |                         |                   |                      |                  |                | 2241           | 0.279         | 0.0514           |
|                              |                      |                    |                         |                   |                      |                  |                | 2251           | 0.279         | 0.0514           |
|                              |                      |                    |                         |                   |                      |                  |                | 2336           | 0.012         | 0.0514           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.





EVENT OF SEPTEMBER 2, 1974  
TOMBSTONE, ARIZONA W-15

## TOMBSTONE, ARIZONA WATERSHED 63.103

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin  
Lat. 31 deg. 44 min. 30 sec. N.; Long. 110 deg. 03 min. 15 sec. W.

AREA: 9.10 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       | TOMBSTONE, ARIZONA WATERSHED 63.103 |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------------------------------------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep                                 | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 1.36              | 0.0   | 0.42   | 0.0   | 0.07    | 0.18  | 4.68                                      | 2.88  | 1.91                                | 2.43  | 0.0   | 0.25  | 14.18  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0   | 0.385                                     | 0.170 | 0.194                               | 0.123 | 0.0   | 0.0   | 0.872  |       |        |       |
| STA AV  | P | 0.38              | 0.44  | 0.57   | 0.15  | 0.12    | 0.34  | 3.18                                      | 2.79  | 1.69                                | 0.71  | 0.27  | 1.00  | 11.65  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.012 | 0.191                                     | 0.303 | 0.153                               | 0.034 | 0.0   | 0.005 | 0.698  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |                                     |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |                                     |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date                                | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 7-19              | 0.905 | 7-19   | 0.199 | 7-19    | 0.199 | 7-19                                      | 0.199 | 7-19                                | 0.199 | 7-19  | 0.199 | 7-18   | 0.199 | 7-27   | 0.350 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |                                     |       |       |       |        |       |        |       |
|   |   | 8-13              | 2.070 | 9-8    | 0.603 | 9-8     | 0.604 | 9-8                                       | 0.604 | 9-8                                 | 0.604 | 9-7   | 0.604 | 9-6    | 0.604 | 8-4    | 0.814 |
|   |   | 1965              |       | 1970   |       | 1970    |       | 1970                                      |       | 1970                                |       | 1970  |       | 1970   |       | 1971   |       |

NOTES: Watershed Conditions: 1974: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetative map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from rain gage No. 83. STA AV based on 1965-74 data. Runoff Data: Records began January 1965. STA AV based on data for the record 1965-74. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

| 1974 DAILY PRECIPITATION (inches) |     |       |      |       |      |      |      |      |      |      |       |      |       | TOMBSTONE, ARIZONA WATERSHED 63.103 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-----|-------|------|-------|------|------|------|------|------|------|-------|------|-------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day | Jan   | Feb  | Mar   | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct   | Nov  | Dec   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 1   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.96 | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 2   | 0.095 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.13 | 0.30 | 0.73 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 3   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.07 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 4   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.38 | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 5   | 0.03  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 6   | 0.03  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 7   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 8   | 0.39  | 0.0  | 0.0   | 0.0  | 0.07 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 9   | 0.73  | 0.0  | 0.21  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 10  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 11  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 12  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.58  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 13  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.11 | 0.56 | 0.0  | 0.03E | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 14  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.08 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 15  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.03 | 0.10 | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 16  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 17  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 18  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.20 | 0.16 | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 19  | 0.0   | 0.0  | 0.16E | 0.0  | 0.0  | 0.0  | 1.09 | 0.02 | 0.06 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 20  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.07 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 21  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 22  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.02 | 0.40  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 23  | 0.0   | 0.0  | 0.05  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0   | 0.0  | 0.02  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 24  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.80 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 25  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.05E |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 26  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.18 | 0.10 | 0.0  | 0.0  | 0.0   | 0.0  | 0.035 |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 27  | 0.09E | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.06  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 28  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.77 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 29  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.79  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 30  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.14  | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 31  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0   | 0.0  | 0.0   |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |     | 1.36  | 0.0  | 0.42  | 0.0  | 0.07 | 0.18 | 4.68 | 2.88 | 1.91 | 2.43  | 0.0  | 0.25  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |     | 0.38  | 0.44 | 0.57  | 0.15 | 0.12 | 0.34 | 3.18 | 2.79 | 1.69 | 0.71  | 0.27 | 1.00  |                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

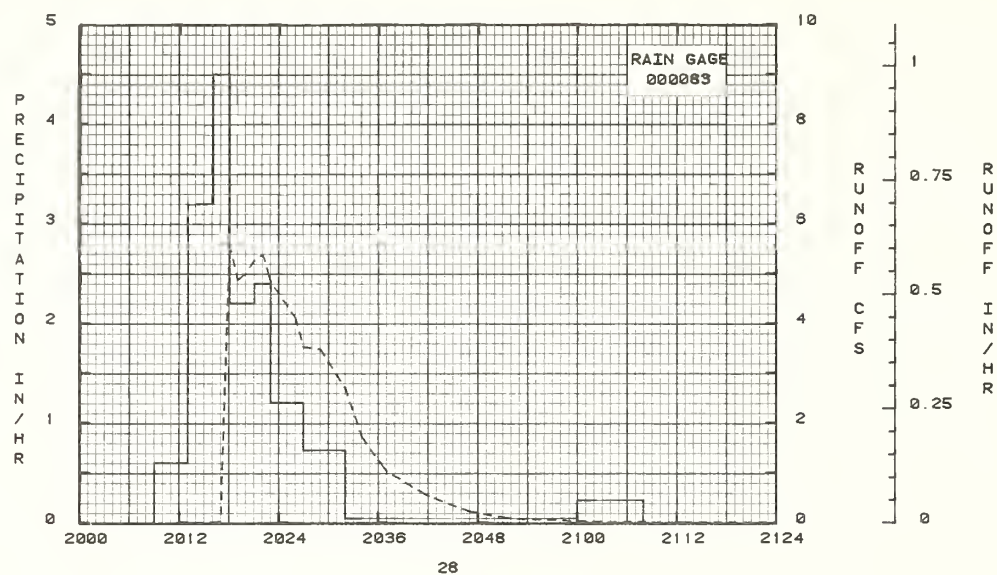
NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-74.

| TOMBSTONE, ARIZONA WATERSHED 63.103 |                            |     |     |     |     |       |        |        |        |        |     |       |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-------|--------|--------|--------|--------|-----|-------|
| 1974                                | MEAN DAILY DISCHARGE (cfs) |     |     |     |     |       |        |        |        |        |     |       |
| Day                                 | Jan                        | Feb | Mar | Apr | May | Jun   | Jul    | Aug    | Sep    | Oct    | Nov | Dec   |
| 1                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.057  | 0.0    | 0.0    | 0.0 | 0.0   |
| 2                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.010  | 0.0    | 0.0 | 0.0   |
| 3                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 4                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0 | 0.0   |
| 5                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 6                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 7                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 8                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 9                                   | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 10                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 11                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 12                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.013  | 0.0 | 0.0   |
| 13                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.001  | 0.0    | 0.0    | 0.0 | 0.0   |
| 14                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 15                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 16                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 17                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 18                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 19                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.068  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 20                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 21                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 22                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.027  | 0.0 | 0.0   |
| 23                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 24                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.058  | 0.0    | 0.0 | 0.0   |
| 25                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 26                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 27                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 28                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.046  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 29                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.003  | 0.0    | 0.0    | 0.003  | 0.0 | 0.0   |
| 30                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.015  | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| 31                                  | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 | 0.0   |
| MEAN                                | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0043 | 0.0019 | 0.0023 | 0.0014 | 0.0 | 0.0   |
| INCHES                              | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.385  | 0.170  | 0.194  | 0.123  | 0.0 | 0.0   |
| STA AV                              | 0.0                        | 0.0 | 0.0 | 0.0 | 0.0 | 0.012 | 0.191  | 0.303  | 0.153  | 0.034  | 0.0 | 0.005 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-74.

| 1974                          | SELECTED RUNOFF EVENT |          |           |        |           | TOMBSTONE, ARIZONA WATERSHED 63.103 |        |        |       |          |  |  |
|-------------------------------|-----------------------|----------|-----------|--------|-----------|-------------------------------------|--------|--------|-------|----------|--|--|
| ANTECEDENT CONDITIONS         |                       |          | RAINFALL  |        |           |                                     | RUNOFF |        |       |          |  |  |
| Date                          | Rainfall              | Runoff   | Date      | Time   | Intensity | Acc.                                | Date   | Time   | Rate  | Acc.     |  |  |
| Mo-Day                        | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches)                            | Mo-Day | of Day | (cfs) | (inches) |  |  |
| EVENT OF JULY 28, 1974        |                       |          |           |        |           |                                     |        |        |       |          |  |  |
| RG 000083                     |                       |          | RG 000083 |        |           |                                     |        |        |       |          |  |  |
| 7-28                          | 0.0                   | 0.0      | 7-28      | 2009   | 0.0       | 0.0                                 | 7-28   | 2014   | 0.0   | 0.0      |  |  |
|                               |                       |          |           | 2013   | 0.6000    | 0.04                                |        | 2017   | 0.016 | 0.0001   |  |  |
|                               |                       |          |           | 2016   | 3.2000    | 0.20                                |        | 2018   | 5.566 | 0.0102   |  |  |
|                               |                       |          |           | 2018   | 4.5011    | 0.35                                |        | 2019   | 4.868 | 0.0191   |  |  |
|                               |                       |          |           | 2021   | 2.2000    | 0.46                                |        | 2020   | 5.004 | 0.0282   |  |  |
| WATERSHED CONDITIONS:         |                       |          |           |        |           |                                     |        |        |       |          |  |  |
| Vegetative cover: Entire      |                       |          |           | 2023   | 2.4000    | 0.54                                |        | 2021   | 5.261 | 0.0377   |  |  |
| area dominated by desert      |                       |          |           | 2027   | 1.2000    | 0.62                                |        | 2022   | 5.391 | 0.0475   |  |  |
| shrubs (whitethorn, creosote- |                       |          |           | 2032   | 0.7200    | 0.68                                |        | 2023   | 4.827 | 0.0563   |  |  |
| bush, and tarbush) with       |                       |          |           | 2100   | 0.0429    | 0.70                                |        | 2026   | 4.100 | 0.0786   |  |  |
| a crown spread of about 25%   |                       |          |           | 2108   | 0.2250    | 0.73                                |        | 2027   | 3.525 | 0.0850   |  |  |
| and an understory of grasses  |                       |          |           |        |           |                                     |        |        |       |          |  |  |
| with about 0.6% basal cover.  |                       |          |           |        |           |                                     |        | 2029   | 3.465 | 0.0976   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2032   | 2.687 | 0.1123   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2034   | 1.714 | 0.1185   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2037   | 1.022 | 0.1240   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2042   | 0.527 | 0.1288   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2047   | 0.222 | 0.1309   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2052   | 0.077 | 0.1315   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2102   | 0.016 | 0.1318   |  |  |
|                               |                       |          |           |        |           |                                     |        | 2112   | 0.0   | 0.1318   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.



EVENT OF JULY 28, 1974  
TOMBSTONE, ARIZONA WATERSHED 63.103



SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Gnadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.  
Lat. 30 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. W.

AREA: 42880.00 acres 67.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | SANTA ROSA, NEW MEXICO WATERSHED W-1 |   |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|--------------------------------------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                                  | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.74              | 0.47  | 0.19   | 0.45  | 0.05    | 0.47                                 | 1.10                                      | 2.87  | 2.83  | 3.40  | 0.34  | 0.27  | 13.18  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0     | 0.0                                  | 0.0                                       | 0.000 | 0.000 | 0.004 | 0.0   | 0.0   | 0.004  |       |        |       |
| STA AV  | P | 0.29              | 0.24  | 0.48   | 0.55  | 0.93    | 1.46                                 | 3.37                                      | 2.90  | 1.53  | 1.70  | 0.48  | 0.31  | 14.25  |       |        |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.015   | 0.010                                | 0.113                                     | 0.062 | 0.022 | 0.003 | 0.0   | 0.0   | 0.226  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                      |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                      | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Date  | Date   | Vol.  | Date    | Vol.                                 | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 10-12             | 0.001 | 10-12  | 0.001 | 10-12   | 0.001                                | 10-12                                     | 0.002 | 10-12 | 0.003 | 10-11 | 0.003 | 10-11  | 0.004 | 10- 6  | 0.004 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                      |   |       |       |       |       |       |        |       |        |       |
|   |   | 7-20              | 0.099 | 7-20   | 0.087 | 7-20    | 0.147                                | 7-20                                      | 0.300 | 7-20  | 0.350 | 7-20  | 0.359 | 7-18   | 0.503 | 7-15   | 0.509 |
|   |   | 1972              |       | 1972   |       | 1972    |                                      | 1972                                      |       | 1972  |       | 1972  |       | 1972   |       | 1972   |       |

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring shrub. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 64 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV based on 7 yr (1968-74), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

| 1974 DAILY PRECIPITATION (inches) |     |       |       |       |       |       |       |       |       |       |       |       |       | SANTA ROSA, NEW MEXICO WATERSHED W-1 |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 1   | 0.02E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.16  | 0.02E | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 2   | 0.06E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.01E | 0.0   | 0.0   | 0.01E | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 3   | 0.0 E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.19E | 0.0   | 0.0   | 0.24E | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.05E | 0.0   | 0.0 T | 0.21E | 0.02E | 0.0   | 0.01  | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.14E | 0.0   | 0.03E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 6   | 0.0   | 0.0 E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02E | 0.0   | 0.22E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 7   | 0.0   | 0.18E | 0.0   | 0.0   | 0.0   | 0.0   | 0.22E | 0.0   | 0.0   | 0.06E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.07E | 0.05E | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 9   | 0.20E | 0.0   | 0.05E | 0.0   | 0.0   | 0.0   | 0.23E | 0.01E | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 10  | 0.07E | 0.0   | 0.14E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.85E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 11  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.27E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 12  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.69E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 13  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.09E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 14  | 0.0   | 0.13E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.66E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 15  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.06E | 0.0   | 0.01  | 0.12E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 16  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.03E | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 17  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.32E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 18  | 0.38E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.08E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 19  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 E | 0.14E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 20  | 0.0   | 0.16S | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.09E | 0.01E | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 21  | 0.01E | 0.0 E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.69E | 0.0 T | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 22  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.05E | 0.0 T | 0.0 T | 0.39E | 0.26E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 23  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.30E | 0.0   | 0.01E | 0.0   | 0.36E | 0.08E | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 24  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.44E | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 25  | 0.0   | 0.0   | 0.0   | 0.45E | 0.0   | 0.02E | 0.07  | 0.02E | 0.0   | 0.0   | 0.0   | 0.07S |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 26  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.06S |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 27  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.71E | 0.0   | 0.05E | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 28  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10E | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 29  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01E | 0.05  | 0.0   | 0.15E | 0.0   | 0.0 S |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 30  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.46E | 0.0   | 0.14S |                                      |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 31  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.24E | 0.20E | 0.0   | 0.0   | 0.0 S | 0.0 S |                                      |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |     | 0.74  | 0.47  | 0.19  | 0.45  | 0.05  | 0.47  | 1.10  | 2.87  | 2.83  | 3.40  | 0.34  | 0.27  |                                      |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |     | 0.29  | 0.24  | 0.48  | 0.55  | 0.93  | 1.46  | 3.37  | 2.90  | 1.53  | 1.70  | 0.48  | 0.31  |                                      |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV are based on 7 yr (1968-74).

| 1974 MEAN DAILY DISCHARGE (cfs) SANTA ROSA, NEW MEXICO WATERSHED W-1 |     |     |     |     |       |       |       |        |        |        |     |     |
|--|-----|-----|-----|-----|-------|-------|-------|--------|--------|--------|-----|-----|
| Day  | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep    | Oct    | Nov | Dec |
| 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 10   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 11   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 12   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 6.125  | 0.0 | 0.0 |
| 13   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.180  | 0.0 | 0.0 |
| 14   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 15   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 16   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 17   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.360  | 0.0    | 0.0 | 0.0 |
| 18   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.180  | 0.0    | 0.0 | 0.0 |
| 19   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 20   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 21   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 22   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 23   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 24   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 25   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 26   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 27   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 28   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 29   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 30   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 |
| 31   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.180  | 0.0    | 0.0    | 0.0 | 0.0 |
| MEAN   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.0058 | 0.0180 | 0.2034 | 0.0 | 0.0 |
| INCRS  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0   | 0.000  | 0.000  | 0.004  | 0.0 | 0.0 |
| STA AV   | 0.0 | 0.0 | 0.0 | 0.0 | 0.015 | 0.010 | 0.113 | 0.062  | 0.022  | 0.093  | 0.0 | 0.0 |

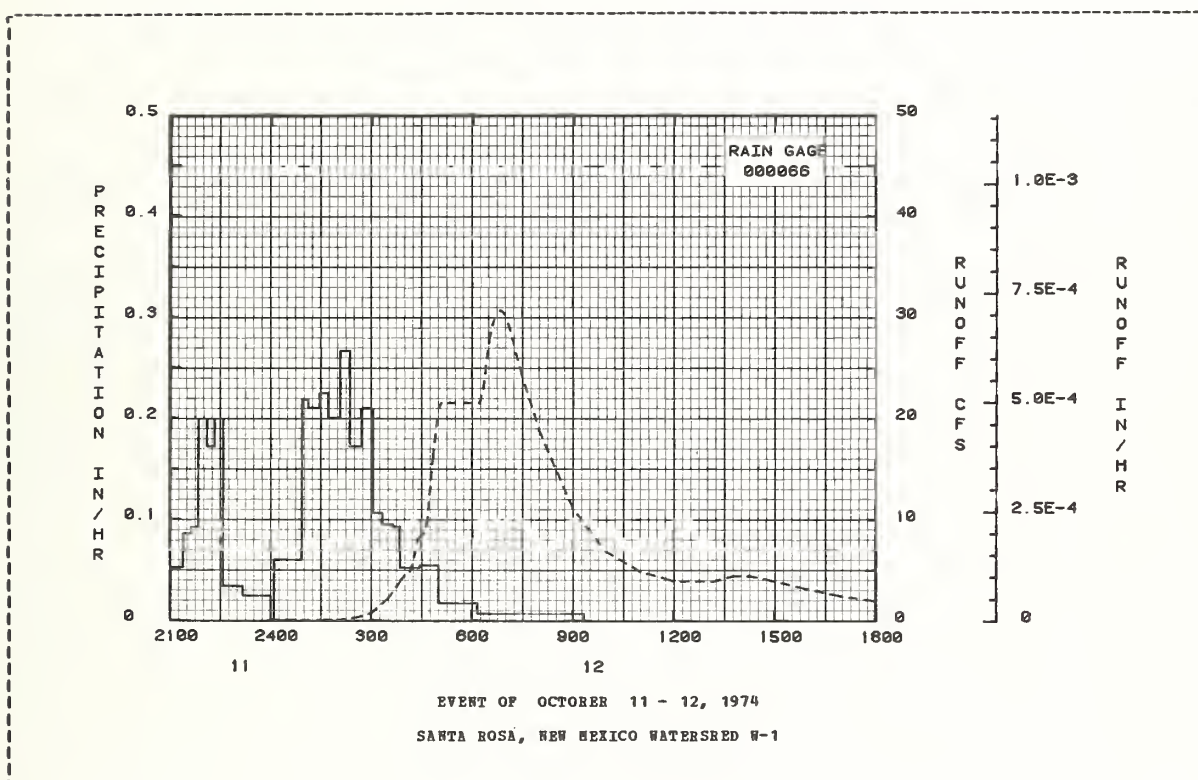
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV based on 7 yr (1968-74).

| 1974 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1  |          |          |           |        |           |          |        |        |        |          |  |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |  |  |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF OCTOBER 11 - 12, 1974   |          |          |           |        |           |          |        |        |        |          |  |  |
| RG 000066  |          |          | RG 000066 |        |           |          |        |        |        |          |  |  |
| 10-11  | 0.0      | 0.0      | 10-11     | 2190   | 0.0       | 0.0      | 10-11  | 2400   | 0.050  | 0.0      |  |  |
|  |          |          |           | 2123   | 0.0522    | 0.02     | 10-12  | 30     | 0.044  | 0.0      |  |  |
|  |          |          |           | 2137   | 0.0857    | 0.04     |        | 150    | 0.044  | 0.0      |  |  |
|  |          |          |           | 2150   | 0.0923    | 0.06     |        | 200    | 0.063  | 0.0      |  |  |
|  |          |          |           | 2205   | 0.2000    | 0.11     |        | 230    | 0.249  | 0.0      |  |  |
| WATERSHED CONDITIONS:<br>Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring muhly. Remaining 25% of area is pinon juniper, and various shrubs, with some grasses interspersed. |          |          |           | 2219   | 0.1714    | 0.15     |        | 300    | 0.717  | 0.0      |  |  |
|  |          |          |           | 2234   | 0.2000    | 0.20     |        | 330    | 2.151  | 0.0      |  |  |
|  |          |          |           | 2310   | 0.0333    | 0.22     |        | 400    | 4.443  | 0.0001   |  |  |
|  |          |          |           | 2400   | 0.0240    | 0.24     |        | 410    | 4.828  | 0.0001   |  |  |
|  |          |          | 10-12     | 6      | 0.0       | 0.24     |        | 425    | 8.085  | 0.0001   |  |  |
|  |          |          |           | 56     | 0.0600    | 0.29     |        | 435    | 8.635  | 0.0002   |  |  |
|  |          |          |           | 107    | 0.2182    | 0.33     |        | 440    | 9.501  | 0.0002   |  |  |
|  |          |          |           | 127    | 0.2100    | 0.40     |        | 450    | 16.200 | 0.0002   |  |  |
|  |          |          |           | 143    | 0.2250    | 0.46     |        | 500    | 21.042 | 0.0003   |  |  |
|  |          |          |           | 204    | 0.2000    | 0.53     |        | 505    | 21.520 | 0.0003   |  |  |
|  |          |          |           | 222    | 0.2667    | 0.61     |        | 613    | 21.520 | 0.0009   |  |  |
|  |          |          |           | 243    | 0.1714    | 0.67     |        | 620    | 22.993 | 0.0010   |  |  |
|  |          |          |           | 303    | 0.2100    | 0.74     |        | 630    | 27.771 | 0.0011   |  |  |
|  |          |          |           | 320    | 0.1059    | 0.77     |        | 640    | 30.071 | 0.0012   |  |  |
|  |          |          |           | 339    | 0.0947    | 0.80     |        | 650    | 30.663 | 0.0013   |  |  |
|  |          |          |           | 352    | 0.0923    | 0.82     |        | 700    | 30.071 | 0.0014   |  |  |
|  |          |          |           | 427    | 0.0514    | 0.85     |        | 730    | 24.008 | 0.0017   |  |  |
|  |          |          |           | 500    | 0.0545    | 0.88     |        | 800    | 18.747 | 0.0020   |  |  |
|  |          |          |           | 610    | 0.0171    | 0.90     |        | 900    | 11.057 | 0.0023   |  |  |
|  |          |          |           | 920    | 0.0063    | 0.92     |        | 1000   | 6.805  | 0.0025   |  |  |
|  |          |          |           |        |           |          |        | 1100   | 4.828  | 0.0027   |  |  |
|  |          |          |           |        |           |          |        | 1200   | 3.902  | 0.0028   |  |  |
|  |          |          |           |        |           |          |        | 1310   | 3.902  | 0.0029   |  |  |
|  |          |          |           |        |           |          |        | 1345   | 4.443  | 0.0029   |  |  |
|  |          |          |           |        |           |          |        | 1415   | 4.443  | 0.0030   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.

| 1974 SELECTED RUNOFF EVENT                 |          |          | SANTA ROSA, NEW MEXICO WATERSHED W-1 |        |           |          |        |        |       |          |  |
|--|----------|----------|--------------------------------------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                      |          |          | RAINFALL                             |        |           |          | RUNOFF |        |       |          |  |
| Date                                       | Rainfall | Runoff   | Date                                 | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| No-Day                                     | (inches) | (inches) | No-Day                               | of Day | (in/hr)   | (inches) | No-Day | of Day | (cfs) | (inches) |  |
| EVENT OF OCTOBER 11 - 12, 1974 (CONTINUED) |          |          |                                      |        |           |          |        |        |       |          |  |
|  |          |          |                                      |        |           |          | 10-12  | 1500   | 3.902 | 0.0030   |  |
|  |          |          |                                      |        |           |          |        | 1600   | 3.092 | 0.0031   |  |
|  |          |          |                                      |        |           |          |        | 1700   | 2.399 | 0.0032   |  |
|  |          |          |                                      |        |           |          |        | 1800   | 1.920 | 0.0032   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.



## REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee Connty, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River. Lat. 43 deg. 15 min. 49 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 57700.00 acres 90.20 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | REYNOLDS, IDAHO WATERSHED W-1 (036068) |         |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|--|---------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                                    | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 1.88              | 0.84  | 3.83   | 0.68  | 0.35    | 0.59                                   | 0.53    | 0.19  | 0.0      | 2.12  | 1.07  | 2.39  | 14.47  |       |        |       |
|   | Q | 0.490             | 0.209 | 1.198  | 1.037 | 0.712   | 0.401                                  | 0.061   | 0.016 | 0.012    | 0.020 | 0.045 | 0.048 | 4.249  |       |        |       |
| STA AV  | P | 3.17              | 1.24  | 2.00   | 1.52  | 0.80    | 1.61                                   | 0.34    | 0.78  | 0.93     | 1.45  | 2.26  | 2.51  | 18.62  |       |        |       |
|   | Q | 0.506             | 0.292 | 0.517  | 0.605 | 0.602   | 0.307                                  | 0.043   | 0.022 | 0.014    | 0.025 | 0.051 | 0.206 | 3.190  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |  |         |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |  | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                                   | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-29              | 0.005 | 3-15   | 0.005 | 3-15    | 0.010                                  | 3-15    | 0.027 | 3-17     | 0.050 | 3-17  | 0.092 | 3-16   | 0.173 | 3-14   | 0.516 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |  |         |       |          |       |       |       |        |       |        |       |
|   |   | 12-23             | 0.065 | 12-23  | 0.064 | 12-23   | 0.125                                  | 12-23   | 0.270 | 12-23    | 0.327 | 12-23 | 0.453 | 12-23  | 0.721 | 12-28  | 1.313 |
|   |   | 1964              |       | 1964   |       | 1964    |  | 1964    |       | 1964     |       | 1964  |       | 1964   |       | 1965   |       |

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 68.1-6. Records began 1963. Precipitation data are Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. Station average precipitation amounts are based on 1968-74 data. Station average runoff amounts are based on the 1963-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

| 1974 DAILY AIR TEMPERATURE (degrees F) |  |      |     |      |     |      |     |      |     |      |     |      |     | REYNOLDS, IDAHO WATERSHED W-1 (036068) |     |      |     |      |     |      |     |      |     |      |     |
|--|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|--|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Day                                    |  | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul                                    |     | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |
|  |  | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max                                    | min | max  | min | max  | min | max  | min | max  | min | max  | min |
| 1                                      |  | 21   | 12  | 40   | 31  | 53   | 31  | 46   | 33  | 63   | 42  | 75   | 37  | 79                                     | 56  | 94   | 62  | 81   | 52  | 75   | 37  | 40   | 36  | 43   | 16  |
| 2                                      |  | 18   | 4   | 40   | 30  | 36   | 29  | 44   | 30  | 58   | 32  | 81   | 41  | 77                                     | 48  | 85   | 60  | 76   | 48  | 73   | 41  | 45   | 35  | 44   | 26  |
| 3                                      |  | 20   | 3   | 52   | 34  | 31   | 24  | 45   | 26  | 63   | 30  | 79   | 48  | 85                                     | 44  | 87   | 55  | 86   | 42  | 64   | 36  | 45   | 26  | 45   | 33  |
| 4                                      |  | 18   | 3   | 45   | 29  | 40   | 25  | 51   | 23  | 68   | 37  | 62   | 55  | 88                                     | 51  | 90   | 55  | 85   | 48  | 57   | 30  | 45   | 22  | 49   | 38  |
| 5                                      |  | 16   | 2   | 30   | 23  | 49   | 38  | 55   | 29  | 75   | 37  | 65   | 49  | 81                                     | 53  | 94   | 61  | 78   | 48  | 50   | 26  | 48   | 36  | 33   | 29  |
| 6                                      |  | 22   | -1  | 34   | 19  | 37   | 25  | 47   | 31  | 72   | 42  | 69   | 45  | 76                                     | 52  | 73   | 57  | 84   | 44  | 55   | 22  | 51   | 24  | 40   | 31  |
| 7                                      |  | 24   | -3  | 38   | 24  | 33   | 23  | 53   | 25  | 79   | 42  | 56   | 42  | 80                                     | 47  | 82   | 50  | 85   | 50  | 63   | 22  | 51   | 38  | 52   | 36  |
| 8                                      |  | 18   | -2  | 46   | 26  | 38   | 11  | 59   | 35  | 78   | 50  | 71   | 35  | 69                                     | 55  | 73   | 45  | 83   | 53  | 67   | 26  | 44   | 31  | 55   | 35  |
| 9                                      |  | 15   | -6  | 46   | 22  | 42   | 4   | 51   | 35  | 67   | 46  | 78   | 40  | 67                                     | 49  | 75   | 46  | 84   | 47  | 56   | 38  | 44   | 26  | 51   | 28  |
| 10                                     |  | 23   | -4  | 42   | 19  | 56   | 14  | 51   | 34  | 58   | 33  | 81   | 43  | 64                                     | 49  | 83   | 47  | 69   | 46  | 58   | 32  | 47   | 29  | 49   | 26  |
| 11                                     |  | 23   | -2  | 49   | 20  | 49   | 37  | 56   | 34  | 70   | 29  | 90   | 46  | 73                                     | 44  | 87   | 50  | 62   | 41  | 58   | 36  | 38   | 28  | 46   | 26  |
| 12                                     |  | 44   | 16  | 47   | 26  | 53   | 36  | 40   | 28  | 54   | 32  | 95   | 51  | 79                                     | 42  | 84   | 50  | 60   | 39  | 61   | 31  | 54   | 29  | 38   | 22  |
| 13                                     |  | 46   | 40  | 42   | 25  | 39   | 28  | 50   | 24  | 51   | 25  | 90   | 55  | 86                                     | 47  | 80   | 48  | 65   | 31  | 66   | 34  | 60   | 32  | 36   | 26  |
| 14                                     |  | 53   | 42  | 41   | 23  | 38   | 30  | 59   | 23  | 61   | 39  | 97   | 53  | 92                                     | 52  | 70   | 42  | 71   | 34  | 63   | 34  | 53   | 31  | 40   | 28  |
| 15                                     |  | 58   | 52  | 48   | 29  | 51   | 36  | 61   | 36  | 50   | 30  | 93   | 64  | 91                                     | 61  | 80   | 38  | 76   | 36  | 60   | 26  | 52   | 27  | 43   | 30  |
| 16                                     |  | 57   | 42  | 42   | 32  | 56   | 39  | 60   | 33  | 47   | 23  | 99   | 60  | 87                                     | 50  | 86   | 43  | 79   | 40  | 65   | 42  | 50   | 22  | 50   | 29  |
| 17                                     |  | 46   | 28  | 39   | 28  | 53   | 36  | 66   | 28  | 52   | 25  | 98   | 59  | 89                                     | 57  | 87   | 49  | 80   | 47  | 71   | 31  | 54   | 23  | 44   | 30  |
| 18                                     |  | 50   | 29  | 44   | 26  | 49   | 27  | 66   | 47  | 54   | 31  | 99   | 58  | 95                                     | 54  | 88   | 50  | 78   | 43  | 69   | 29  | 49   | 36  | 40   | 24  |
| 19                                     |  | 47   | 33  | 44   | 28  | 47   | 27  | 56   | 39  | 56   | 28  | 94   | 68  | 90                                     | 55  | 66   | 50  | 78   | 44  | 71   | 30  | 48   | 32  | 41   | 28  |
| 20                                     |  | 33   | 26  | 38   | 24  | 38   | 20  | 56   | 33  | 60   | 36  | 79   | 57  | 90                                     | 59  | 68   | 45  | 79   | 49  | 67   | 36  | 54   | 29  | 48   | 36  |
| 21                                     |  | 33   | 23  | 39   | 24  | 52   | 17  | 63   | 31  | 63   | 31  | 82   | 49  | 92                                     | 58  | 79   | 39  | 77   | 40  | 39   | 29  | 61   | 43  | 50   | 27  |
| 22                                     |  | 40   | 29  | 34   | 23  | 50   | 33  | 70   | 34  | 73   | 39  | 93   | 53  | 89                                     | 57  | 81   | 48  | 76   | 39  | 44   | 22  | 48   | 29  | 30   | 21  |
| 23                                     |  | 43   | 36  | 36   | 17  | 46   | 22  | 67   | 40  | 73   | 41  | 90   | 57  | 86                                     | 56  | 83   | 49  | 77   | 41  | 46   | 22  | 51   | 32  | 30   | 19  |
| 24                                     |  | 47   | 30  | 42   | 16  | 60   | 28  | 58   | 39  | 71   | 42  | 92   | 57  | 89                                     | 56  | 82   | 52  | 78   | 42  | 48   | 31  | 52   | 29  | 34   | 20  |
| 25                                     |  | 44   | 32  | 52   | 23  | 54   | 30  | 50   | 34  | 79   | 46  | 90   | 55  | 88                                     | 56  | 87   | 49  | 81   | 39  | 62   | 42  | 40   | 22  | 30   | 17  |
| 26                                     |  | 36   | 28  | 49   | 32  | 53   | 35  | 53   | 29  | 83   | 48  | 76   | 41  | 92                                     | 53  | 89   | 53  | 75   | 50  | 62   | 35  | 45   | 32  | 32   | 20  |
| 27                                     |  | 37   | 30  | 44   | 27  | 55   | 36  | 49   | 31  | 72   | 47  | 82   | 46  | 93                                     | 60  | 90   | 55  | 64   | 35  | 58   | 39  | 42   | 28  | 47   | 26  |
| 28                                     |  | 40   | 33  | 56   | 37  | 50   | 37  | 58   | 36  | 68   | 38  | 82   | 49  | 95                                     | 59  | 89   | 55  | 73   | 36  | 56   | 37  | 37   | 20  | 30   | 16  |
| 29                                     |  | 47   | 36  |      |     | 53   | 37  | 63   | 36  | 66   | 42  | 87   | 53  | 91                                     | 58  | 87   | 54  | 72   | 34  | 54   | 40  | 40   | 16  | 30   | 8   |
| 30                                     |  | 49   | 35  |      |     | 51   | 36  | 76   | 35  | 62   | 33  | 93   | 53  | 92                                     | 58  | 86   | 51  | 74   | 36  | 49   | 39  | 39   | 19  | 28   | 15  |
| 31                                     |  | 44   | 37  |      |     | 49   | 31  |      |     | 69   | 33  |      |     | 92                                     | 59  | 85   | 53  |      |     | 47   | 38  |      |     | 29   | 5   |
| AV.                                    |  | 36   | 21  | 43   | 26  | 47   | 28  | 56   | 32  | 65   | 36  | 84   | 51  | 85                                     | 53  | 83   | 50  | 76   | 42  | 59   | 33  | 48   | 29  | 41   | 25  |
| MEAN                                   |  | 28.7 |     | 34.3 |     | 37.8 |     | 44.2 |     | 50.8 |     | 67.3 |     | 69.3                                   |     | 66.7 |     | 59.4 |     | 46.0 |     | 38.2 |     | 32.8 |     |
| STA AV                                 |  | 37   | 21  | 45   | 26  | 48   | 26  | 55   | 29  | 67   | 39  | 75   | 47  | 86                                     | 52  | 85   | 51  | 73   | 43  | 61   | 33  | 48   | 27  | 38   | 22  |

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 12 yr (1963-74) record period.



| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |       |       |       |       |       |       |       | REYNOLDS, IDAHO WATERSHED W-1 (036068) |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01  | 0.04  | 0.73  | 0.33  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.03  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0 T | 0.0 T | 0.25  | 0.04  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.05  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.0 T | 0.0   | 0.0 T | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0 T | 0.11  | 0.09  | 0.0 T | 0.0   | 0.16  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.07  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.05  | 0.0 T | 0.06  | 0.13  | 0.0   | 0.43  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.02  | 0.0   | 0.69  | 0.0 T | 0.0   | 0.0 T | 0.05  | 0.18  | 0.0   | 0.0   | 0.0 T | 0.05  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0 T | 0.0   | 0.40  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0   | 0.35  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.0   | 0.0   | 0.05  | 0.0   | 0.0   | 0.0   | 0.12  | 0.0   | 0.0   | 0.02  | 0.01  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.0   | 0.0   | 0.0   | 0.04  | 0.0 T | 0.0   | 0.28  | 0.0   | 0.0   | 0.49  | 0.0 T | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0   | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.07  | 0.0   | 0.0   | 0.0 T | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0 T | 0.0   | 0.03  | 0.05  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.27  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.17  | 0.0   | 0.08  | 0.0 T | 0.17  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.26  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.13  | 0.0   | 0.07  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0 T | 0.01  | 0.38  | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.22  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0 T | 0.0 T | 0.03  | 0.0 T | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.16  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.19  | 0.12  | 0.01  | 0.0   | 0.10  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.01  | 0.0 T | 0.07  | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.06  | 0.11  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.35  | 0.15  | 0.0 T | 0.02  | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.38  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.04  | 0.26  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.01  | 0.11  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.05  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.03  | 0.0 T | 0.46  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.01  | 0.07  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  | 0.0 T | 0.08  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.01  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 T | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.38  | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0 T | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.12  | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.07  | 0.0 T | 0.09  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.07  | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.12  | 0.06  | 0.06  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.32  | 0.0 T | 0.10  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.11  | 0.39  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0 T | 0.0 T | 0.03  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.57  | 0.0 T | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.0   | 0.45  | 0.0   | 0.01  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.41  | 0.0   | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0 T | 0.16  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.14  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.33  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 1.88  | 0.84  | 3.83  | 0.68  | 0.35  | 0.59  | 0.53  | 0.19  | 0.0   | 2.12  | 1.07  | 2.39  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 3.17  | 1.24  | 2.00  | 1.52  | 0.80  | 1.61  | 0.34  | 0.78  | 0.93  | 1.45  | 2.26  | 2.51  |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/S) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period.

| 1974 DAILY PRECIPITATION (inches) |       |       |       |       |       |       |       |       |       |       |       |       | REYNOLDS, IDAHO WATERSHED W-1 (036068) |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01  | 0.03  | 0.49  | 0.22  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.02  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0 T | 0.0 T | 0.15  | 0.03  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.04  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.0 T | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0 T | 0.08  | 0.04  | 0.0 T | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.06  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.05  | 0.0 T | 0.03  | 0.10  | 0.0   | 0.38  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.02  | 0.0   | 0.43  | 0.0 T | 0.0   | 0.0 T | 0.05  | 0.17  | 0.0   | 0.0   | 0.0 T | 0.04  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0 T | 0.0   | 0.24  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0   | 0.32  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.0   | 0.0   | 0.02  | 0.0   | 0.0   | 0.0   | 0.11  | 0.0   | 0.0   | 0.02  | 0.01  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.0   | 0.0   | 0.0   | 0.03  | 0.0 T | 0.0   | 0.27  | 0.0   | 0.0   | 0.46  | 0.0 T | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0   | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.07  | 0.0   | 0.0   | 0.0 T | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0 T | 0.0   | 0.01  | 0.04  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.17  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.11  | 0.0   | 0.05  | 0.0 T | 0.14  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.17  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.09  | 0.0   | 0.05  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0 T | 0.01  | 0.29  | 0.0   | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0 T | 0.0 T | 0.02  | 0.0 T | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.08  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.17  | 0.06  | 0.01  | 0.0   | 0.08  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.01  | 0.0 T | 0.05  | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.05  | 0.07  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.31  | 0.09  | 0.0 T | 0.02  | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.33  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.03  | 0.16  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.01  | 0.08  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.04  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.02  | 0.0 T | 0.35  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0 T | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.07  | 0.0 T | 0.05  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.01  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 T | 0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.31  | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.10  | 0.0 T | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.03  | 0.0 T | 0.08  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.66  | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.06  | 0.05  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.18  | 0.0 T | 0.09  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.08  | 0.21  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0 T | 0.0 T | 0.03  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.51  | 0.0 T | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   | 0.37  | 0.0   | 0.01  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.37  | 0.0   | 0.0 T |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0 T | 0.13  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.08  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.21  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 1.33  | 0.54  | 2.63  | 0.48  | 0.29  | 0.52  | 0.51  | 0.18  | 0.0   | 1.86  | 0.92  | 1.47  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |       |       |       |       | REYNOLDS, IDAHO WATERSHED W-1 (036068) |       |       |     |       |       |       |
|--------|------------------------------|-------|-------|-------|-------|--|-------|-------|-----|-------|-------|-------|
| Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun                                    | Jul   | Aug   | Sep | Oct   | Nov   | Dec   |
| 1      | 0.01                         | 0.04  | 0.61  | 0.27  | 0.0 T | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.03  | 0.0   |
| 2      | 0.0 T                        | 0.0 T | 0.21  | 0.03  | 0.0 T | 0.0                                    | 0.0   | 0.0 T | 0.0 | 0.0   | 0.04  | 0.0   |
| 3      | 0.0 T                        | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0                                    | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0 T |
| 4      | 0.0 T                        | 0.10  | 0.06  | 0.0 T | 0.0   | 0.15                                   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.07  |
| 5      | 0.05                         | 0.0 T | 0.04  | 0.11  | 0.0   | 0.41                                   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0 T |
| 6      | 0.02                         | 0.0   | 0.56  | 0.0 T | 0.0   | 0.0 T                                  | 0.05  | 0.17  | 0.0 | 0.0   | 0.0 T | 0.04  |
| 7      | 0.0 T                        | 0.0   | 0.32  | 0.0 T | 0.0   | 0.0 T                                  | 0.0   | 0.0 T | 0.0 | 0.0   | 0.34  | 0.0 T |
| 8      | 0.0                          | 0.0   | 0.04  | 0.0   | 0.0   | 0.0                                    | 0.11  | 0.0   | 0.0 | 0.02  | 0.01  | 0.0 T |
| 9      | 0.0                          | 0.0   | 0.0   | 0.03  | 0.0 T | 0.0                                    | 0.27  | 0.0   | 0.0 | 0.48  | 0.0 T | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0                                    | 0.07  | 0.0   | 0.0 | 0.0 T | 0.0 T | 0.0 T |
| 11     | 0.0 T                        | 0.0   | 0.02  | 0.05  | 0.0   | 0.0                                    | 0.0 T | 0.0   | 0.0 | 0.0   | 0.0   | 0.22  |
| 12     | 0.14                         | 0.0   | 0.07  | 0.0 T | 0.15  | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.21  |
| 13     | 0.11                         | 0.0   | 0.06  | 0.0   | 0.0 T | 0.0                                    | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.01  |
| 14     | 0.0 T                        | 0.01  | 0.34  | 0.0   | 0.0 T | 0.0 T                                  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.15  |
| 15     | 0.0 T                        | 0.0 T | 0.03  | 0.0 T | 0.03  | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.12  |
| 16     | 0.18                         | 0.09  | 0.01  | 0.0   | 0.09  | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 T |
| 17     | 0.01                         | 0.0 T | 0.06  | 0.0   | 0.03  | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.05  | 0.09  |
| 18     | 0.33                         | 0.12  | 0.0 T | 0.02  | 0.0   | 0.0                                    | 0.01  | 0.0   | 0.0 | 0.0   | 0.36  | 0.0 T |
| 19     | 0.04                         | 0.21  | 0.0 T | 0.0   | 0.0 T | 0.0                                    | 0.0 T | 0.01  | 0.0 | 0.0   | 0.01  | 0.10  |
| 20     | 0.04                         | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0 T                                  | 0.0   | 0.0 T | 0.0 | 0.02  | 0.0 T | 0.41  |
| 21     | 0.0 T                        | 0.05  | 0.0   | 0.0   | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.08  | 0.0 T | 0.06  |
| 22     | 0.01                         | 0.02  | 0.0   | 0.0   | 0.0   | 0.0 T                                  | 0.0   | 0.0   | 0.0 | 0.0 T | 0.0 T | 0.01  |
| 23     | 0.0 T                        | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0                                    | 0.0   | 0.0 T | 0.0 | 0.35  | 0.0 T | 0.0 T |
| 24     | 0.0 T                        | 0.0   | 0.0   | 0.01  | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.11  | 0.0 T | 0.0 T |
| 25     | 0.05                         | 0.0 T | 0.08  | 0.0 T | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.07  | 0.01  |
| 26     | 0.09                         | 0.05  | 0.05  | 0.0   | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 T |
| 27     | 0.24                         | 0.0 T | 0.10  | 0.01  | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.10  | 0.29  |
| 28     | 0.0 T                        | 0.0 T | 0.03  | 0.01  | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.55  | 0.0 T | 0.01  |
| 29     | 0.0                          | 0.0   | 0.41  | 0.0   | 0.01  | 0.0                                    | 0.0 T | 0.0   | 0.0 | 0.39  | 0.0   | 0.0 T |
| 30     | 0.0 T                        | 0.15  | 0.0   | 0.0   | 0.0   | 0.0                                    | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 T | 0.11  |
| 31     | 0.27                         | 0.0 T | 0.0 T | 0.0   | 0.0   | 0.0                                    | 0.0 T | 0.0   | 0.0 | 0.0 T | 0.0   | 0.0   |
| TOTAL  | 1.59                         | 0.69  | 3.25  | 0.56  | 0.31  | 0.56                                   | 0.51  | 0.18  | 0.0 | 2.00  | 1.01  | 1.91  |
| STA AV |                              |       |       |       |       |  |       |       |     |       |       |       |

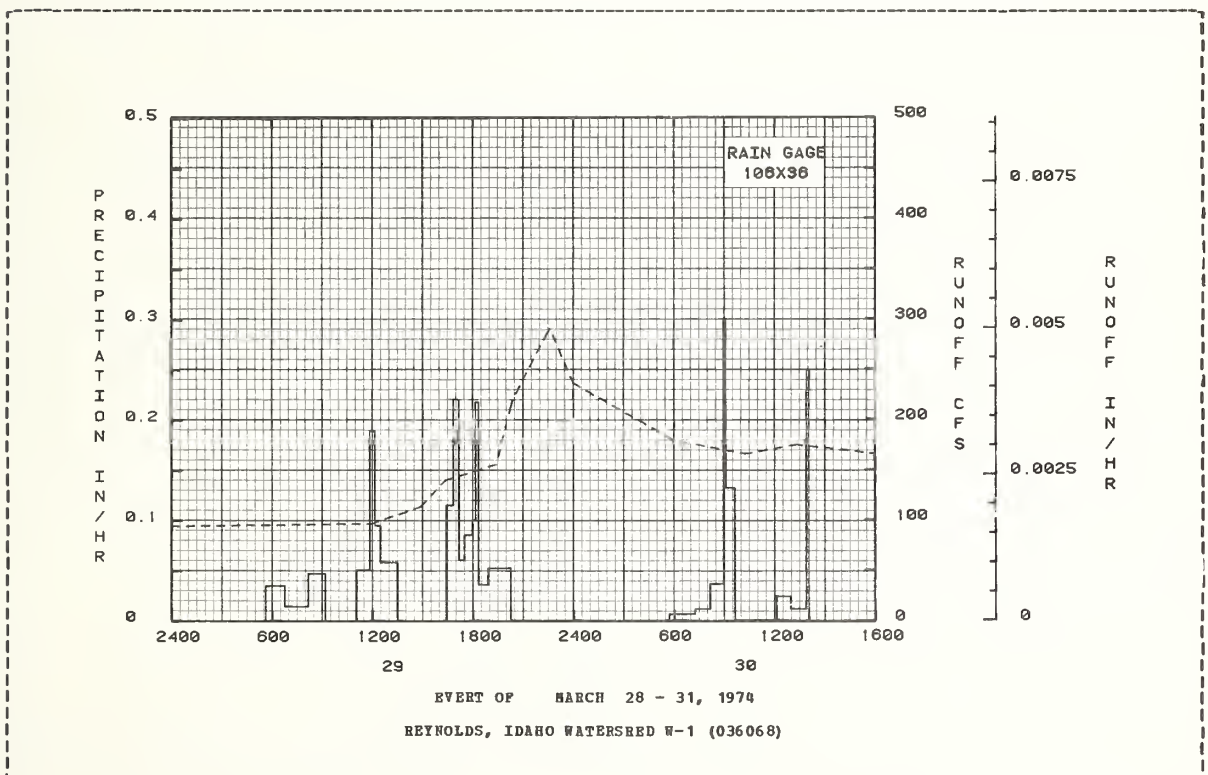
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

| 1974   | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | REYNOLDS, IDAHO WATERSHED W-1 (036068) |       |       |       |       |       |       |
|--------|----------------------------|--------|--------|--------|--------|--|-------|-------|-------|-------|-------|-------|
| Day    | Jan                        | Feb    | Mar    | Apr    | May    | Jun                                    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1      | 12.85                      | 28.12  | 37.82  | 132.36 | 68.61  | 52.12                                  | 10.66 | 1.70  | 0.97  | 0.49  | 3.39  | 2.91  |
| 2      | 6.06                       | 23.03  | 41.21  | 117.09 | 61.82  | 50.18                                  | 10.67 | 1.70  | 1.45  | 0.73  | 3.39  | 2.67  |
| 3      | 8.48                       | 22.06  | 27.64  | 99.39  | 60.36  | 49.45                                  | 10.91 | 1.45  | 0.97  | 0.73  | 3.39  | 1.94  |
| 4      | 11.88                      | 20.12  | 24.48  | 88.97  | 61.82  | 52.60                                  | 10.66 | 1.46  | 0.97  | 0.73  | 3.15  | 1.94  |
| 5      | 15.27                      | 16.97  | 31.51  | 92.85  | 66.91  | 77.09                                  | 7.52  | 1.21  | 0.97  | 0.73  | 3.15  | 2.18  |
| 6      | 12.36                      | 17.70  | 49.70  | 92.85  | 72.73  | 63.27                                  | 5.09  | 1.70  | 0.73  | 0.73  | 3.39  | 1.94  |
| 7      | 11.39                      | 22.79  | 37.09  | 82.67  | 86.55  | 56.82                                  | 5.82  | 1.45  | 0.97  | 0.73  | 3.15  | 1.94  |
| 8      | 11.15                      | 18.42  | 32.48  | 84.36  | 94.06  | 48.24                                  | 5.57  | 1.21  | 0.97  | 0.73  | 4.60  | 1.70  |
| 9      | 7.27                       | 17.70  | 28.85  | 88.48  | 92.85  | 43.63                                  | 6.31  | 0.97  | 0.97  | 1.21  | 3.64  | 2.18  |
| 10     | 6.30                       | 16.24  | 36.12  | 77.33  | 82.18  | 40.73                                  | 8.00  | 1.21  | 1.21  | 0.73  | 3.39  | 1.94  |
| 11     | 5.82                       | 16.73  | 55.51  | 76.60  | 77.09  | 34.18                                  | 6.30  | 1.21  | 1.94  | 0.73  | 3.15  | 2.42  |
| 12     | 11.39                      | 18.18  | 105.94 | 76.60  | 74.18  | 27.15                                  | 4.61  | 1.21  | 1.94  | 0.97  | 3.15  | 2.18  |
| 13     | 41.70                      | 17.70  | 88.24  | 71.03  | 59.15  | 28.60                                  | 4.60  | 1.45  | 1.94  | 0.97  | 3.15  | 2.43  |
| 14     | 38.54                      | 17.21  | 112.48 | 73.94  | 52.12  | 30.54                                  | 4.12  | 1.70  | 0.97  | 0.73  | 3.15  | 2.42  |
| 15     | 118.54                     | 17.70  | 194.18 | 80.00  | 44.85  | 29.58                                  | 3.88  | 1.45  | 0.73  | 0.97  | 3.15  | 2.91  |
| 16     | 113.45                     | 18.67  | 187.88 | 87.03  | 45.57  | 29.58                                  | 3.88  | 1.70  | 0.73  | 0.97  | 3.15  | 3.39  |
| 17     | 109.09                     | 17.70  | 222.06 | 94.79  | 44.61  | 29.33                                  | 3.64  | 1.45  | 0.73  | 0.97  | 3.88  | 5.09  |
| 18     | 100.85                     | 17.70  | 183.51 | 102.06 | 40.48  | 27.15                                  | 3.39  | 0.97  | 0.73  | 1.21  | 5.82  | 3.39  |
| 19     | 108.60                     | 22.06  | 137.94 | 101.82 | 35.88  | 22.30                                  | 3.64  | 1.21  | 0.73  | 1.46  | 5.09  | 4.60  |
| 20     | 69.82                      | 17.70  | 109.33 | 89.94  | 31.52  | 16.24                                  | 3.63  | 0.97  | 0.73  | 1.70  | 4.60  | 9.94  |
| 21     | 46.30                      | 17.45  | 95.03  | 81.70  | 30.06  | 21.09                                  | 3.64  | 1.21  | 0.73  | 1.94  | 4.36  | 11.15 |
| 22     | 44.36                      | 16.00  | 90.18  | 91.88  | 27.39  | 21.82                                  | 3.64  | 1.21  | 0.73  | 1.94  | 4.12  | 4.61  |
| 23     | 39.76                      | 12.85  | 81.94  | 95.27  | 27.39  | 20.12                                  | 2.91  | 0.97  | 0.73  | 1.70  | 3.88  | 4.36  |
| 24     | 35.88                      | 14.30  | 78.79  | 85.09  | 31.03  | 18.18                                  | 2.18  | 1.21  | 0.73  | 1.94  | 3.39  | 4.61  |
| 25     | 35.15                      | 14.79  | 82.42  | 75.64  | 38.06  | 16.97                                  | 2.18  | 1.21  | 0.73  | 1.70  | 3.88  | 5.33  |
| 26     | 31.27                      | 16.30  | 102.79 | 64.73  | 44.12  | 15.03                                  | 2.18  | 1.21  | 0.49  | 1.21  | 2.91  | 4.61  |
| 27     | 25.45                      | 14.30  | 101.82 | 54.54  | 54.30  | 11.64                                  | 2.18  | 0.97  | 0.73  | 1.94  | 3.63  | 5.33  |
| 28     | 28.12                      | 16.24  | 90.18  | 47.03  | 58.67  | 13.09                                  | 1.94  | 1.46  | 0.49  | 2.43  | 2.91  | 4.85  |
| 29     | 26.42                      | 134.06 | 48.97  | 55.03  | 55.03  | 12.60                                  | 1.94  | 1.21  | 0.73  | 7.03  | 2.91  | 3.39  |
| 30     | 24.73                      | 175.03 | 58.67  | 53.57  | 53.57  | 11.64                                  | 1.70  | 1.21  | 0.73  | 4.85  | 2.91  | 4.60  |
| 31     | 30.79                      | 127.51 |        | 52.85  | 52.85  |  | 1.45  | 0.73  |       | 3.64  |       | 3.39  |
| MEAN   | 38.357                     | 18.086 | 93.668 | 83.788 | 55.671 | 32.371                                 | 4.801 | 1.290 | 0.937 | 1.564 | 3.596 | 3.754 |
| INCHES | 0.490                      | 0.209  | 1.198  | 1.037  | 0.712  | 0.401                                  | 0.061 | 0.016 | 0.012 | 0.020 | 0.045 | 0.048 |
| STA AV | 0.506                      | 0.292  | 0.517  | 0.605  | 0.602  | 0.307                                  | 0.043 | 0.022 | 0.014 | 0.025 | 0.051 | 0.206 |

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 12 yr (1963-74) record period.

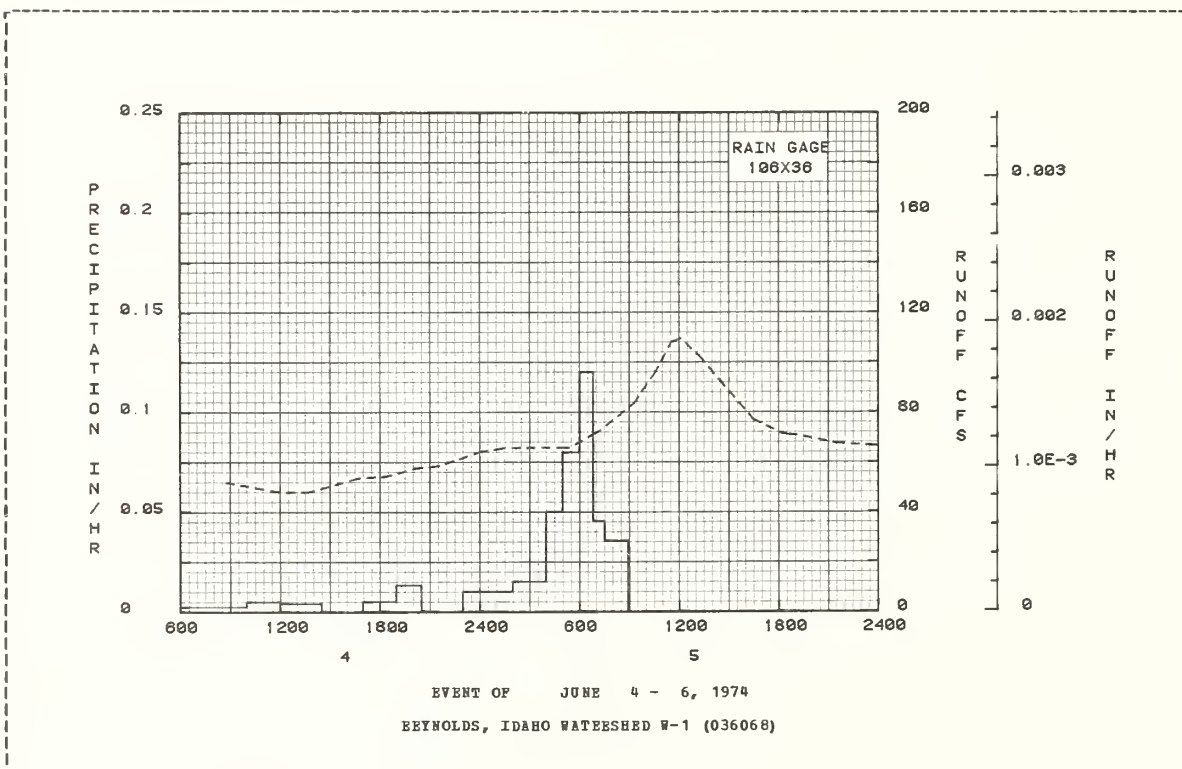
| 1974 SELECTED RUNOFF EVENT  |                      |                    | REYNOLDS, IDAHO WATERSHED W-1 (036068) |                |                      |                  |                |                |               |                  |
|---|----------------------|--------------------|--|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS   |                      |                    | RAINFALL                               |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day  | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                         | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MARCH 28 - 31, 1974  |                      |                    |  |                |                      |                  |                |                |               |                  |
| RG 106X36   |                      |                    | RG 106X36                              |                |                      |                  |                |                |               |                  |
| 3-29  | 0.0                  |                    | 3-29                                   | 537            | 0.0                  | 0.0              | 3-28           | 2400           | 95.263        | 0.0              |
| 3-28  | 0.0                  | 0.037              |  | 645            | 0.0353               | 0.04             | 3-29           | 1156           | 97.316        | 0.0197           |
|   |                      |                    |  | 809            | 0.0143               | 0.06             |                | 1454           | 114.065       | 0.0251           |
|   |                      |                    |  | 912            | 0.0476               | 0.11             |                | 1622           | 140.468       | 0.0283           |
|   |                      |                    |  | 1104           | 0.0                  | 0.11             |                | 1924           | 156.040       | 0.0360           |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt at the<br>upper elevations. |                      |                    |  | 1151           | 0.0511               | 0.15             |                | 2022           | 220.156       | 0.0392           |
|   |                      |                    |  | 1210           | 0.1895               | 0.21             |                | 2236           | 291.104       | 0.0490           |
|   |                      |                    |  | 1229           | 0.0947               | 0.24             |                | 2400           | 236.031       | 0.0553           |
|   |                      |                    |  | 1331           | 0.0581               | 0.30             | 3-30           | 600            | 178.891       | 0.0767           |
|   |                      |                    |  | 1625           | 0.0                  | 0.30             |                | 1012           | 165.719       | 0.0891           |
|   |                      |                    |  | 1651           | 0.1154               | 0.35             |                | 1312           | 174.767       | 0.0979           |
|   |                      |                    |  | 1710           | 0.2211               | 0.42             |                | 1754           | 165.719       | 0.1116           |
|   |                      |                    |  | 1730           | 0.0600               | 0.44             |                | 2400           | 136.963       | 0.1275           |
|   |                      |                    |  | 1758           | 0.0857               | 0.48             | 3-31           | 840            | 121.919       | 0.1467           |
|   |                      |                    |  | 1810           | 0.1000               | 0.50             |                |                |               |                  |
| 3-30  |                      |                    |  | 1821           | 0.2182               | 0.54             |                |                |               |                  |
|   |                      |                    |  | 1855           | 0.0353               | 0.56             |                |                |               |                  |
|   |                      |                    |  | 2015           | 0.0525               | 0.63             |                |                |               |                  |
|   |                      |                    |  | 542            | 0.0                  | 0.63             |                |                |               |                  |
|   |                      |                    |  | 715            | 0.0065               | 0.64             |                |                |               |                  |
|   |                      |                    |  | 808            | 0.0113               | 0.65             |                |                |               |                  |
|   |                      |                    |  | 857            | 0.0367               | 0.68             |                |                |               |                  |
|   |                      |                    |  | 905            | 0.3000               | 0.72             |                |                |               |                  |
|   |                      |                    |  | 937            | 0.1312               | 0.79             |                |                |               |                  |
|   |                      |                    |  | 1206           | 0.0                  | 0.79             |                |                |               |                  |
|   |                      |                    |  | 1256           | 0.0240               | 0.81             |                |                |               |                  |
|   |                      |                    |  | 1352           | 0.0107               | 0.82             |                |                |               |                  |
|   |                      |                    |  | 1404           | 0.2500               | 0.87             |                |                |               |                  |

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.



| 1974   |          |          | REYNOLDS, IDAHO WATERSHED W-1 (036068) |        |           |          |        |        |         |          |        |
|--|----------|----------|--|--------|-----------|----------|--------|--------|---------|----------|--------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL                               |        |           |          | RUNOFF |        |         |          |        |
| Date   | Rainfall | Runoff   | Date                                   | Time   | Intensity | Acc.     | Date   | Time   | Eate    | Acc.     |        |
| Mo-Day   | (inches) | (inches) | Mo-Day                                 | of Day | (in/hr)   | (inches) | Mo-Day | of Day | {cfs}   | (inches) |        |
| EVENT OF JUNE 4 - 6, 1974  |          |          |  |        |           |          |        |        |         |          |        |
| RG 106X36  |          |          | EG 106X36                              |        |           |          |        |        |         |          |        |
| 6- 4   | 0.0      | 0.008    | 6- 4                                   | 600    | 0.0       | 0.0      | 6- 4   | 846    | 51.916  | 0.0      |        |
|  |          |          |  | 1000   | 0.0025    | 0.01     |        | 1158   | 47.915  | 0.0027   |        |
|  |          |          |  | 1200   | 0.0050    | 0.02     |        | 1336   | 47.915  | 0.0041   |        |
|  |          |          |  | 1430   | 0.0040    | 0.03     |        | 1648   | 53.760  | 0.0068   |        |
|  |          |          |  | 1700   | 0.0       | 0.03     |        | 1816   | 54.227  | 0.0082   |        |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt. |          |          |  |        | 1900      | 0.0050   | 0.04   | 2006   | 57.571  | 0.0100   |        |
|  |          |          |  |        | 2030      | 0.0133   | 0.06   | 2132   | 58.550  | 0.0114   |        |
|  |          |          |  |        | 2300      | 0.0      | 0.06   | 2400   | 64.128  | 0.0140   |        |
|  |          |          |  |        | 2400      | 0.0100   | 0.07   | 6- 5   | 130     | 65.707   | 0.0157 |
|  |          |          |  |        | 6- 5      | 100      | 0.0100 | 0.08   | 522     | 65.707   | 0.0200 |
|  |          |          |  |        | 200       | 0.0100   | 0.09   | 716    | 72.845  | 0.0223   |        |
|  |          |          |  |        | 400       | 0.0150   | 0.12   | 916    | 83.551  | 0.0250   |        |
|  |          |          |  |        | 500       | 0.0500   | 0.17   | 1044   | 98.008  | 0.0273   |        |
|  |          |          |  |        | 600       | 0.0800   | 0.25   | 1130   | 108.035 | 0.0286   |        |
|  |          |          |  |        | 650       | 0.1200   | 0.35   | 1204   | 109.522 | 0.0297   |        |
|  |          |          |  |        | 730       | 0.0450   | 0.38   | 1312   | 102.224 | 0.0317   |        |
|  |          |          |  |        | 855       | 0.0353   | 0.43   | 1426   | 92.570  | 0.0338   |        |
|  |          |          |  |        |           |          |        | 1628   | 76.893  | 0.0367   |        |
|  |          |          |  |        |           |          |        | 1814   | 71.155  | 0.0390   |        |
|  |          |          |  |        |           |          |        | 1904   | 70.597  | 0.0400   |        |
|  |          |          |  |        |           |          |        | 2128   | 67.312  | 0.0428   |        |
|  |          |          |  |        |           |          |        | 2400   | 66.239  | 0.0458   |        |
|  |          |          |  |        |           |          |        | 6- 6   | 158     | 67.312   | 0.0480 |
|  |          |          |  |        |           |          |        | 824    | 66.239  | 0.0554   |        |
|  |          |          |  |        |           |          |        | 934    | 67.312  | 0.0567   |        |
|  |          |          |  |        |           |          |        | 1454   | 63.090  | 0.0627   |        |
|  |          |          |  |        |           |          |        | 1754   | 58.059  | 0.0658   |        |
|  |          |          |  |        |           |          |        | 2002   | 57.571  | 0.0679   |        |
|  |          |          |  |        |           |          |        | 2400   | 60.039  | 0.0719   |        |

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.





## REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south ofampa; east flowing tributary to Reynolds Creek, Snake River Basin.  
 Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 8990.00 acres 14.05 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017) |         |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|---|---------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 1.82              | 0.99  | 3.73   | 0.63  | 0.55    | 0.88  | 0.51    | 0.20  | 0.0      | 2.17  | 1.09  | 2.61  | 15.18  |       |        |       |
|   | Q | 0.566             | 0.230 | 1.244  | 0.557 | 0.196   | 0.061   | 0.022   | 0.004 | 0.005    | 0.031 | 0.069 | 0.099 | 3.084  |       |        |       |
| STA AV  | P | 3.35              | 1.33  | 2.27   | 1.92  | 1.00    | 1.99  | 0.27    | 0.67  | 1.19     | 1.61  | 2.61  | 2.61  | 20.82  |       |        |       |
|   | Q | 0.773             | 0.370 | 0.607  | 0.488 | 0.271   | 0.126   | 0.026   | 0.031 | 0.020    | 0.044 | 0.091 | 0.176 | 3.022  |       |        |       |
| -----   |   |                   |       |        |       |         |   |         |       |          |       |       |       |        |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |   |         |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |   | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 5 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-17              | 0.006 | 3-17   | 0.005 | 3-17    | 0.011   | 3-17    | 0.032 | 3-17     | 0.062 | 3-17  | 0.116 | 3-16   | 0.208 | 3-12   | 0.612 |
| -----   |   |                   |       |        |       |         |   |         |       |          |       |       |       |        |       |        |       |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |   |         |       |          |       |       |       |        |       |        |       |
|   |   | 8-23              | 0.073 | 8-23   | 0.044 | 8-23    | 0.056   | 1-20    | 0.115 | 1-28     | 0.208 | 1-28  | 0.379 | 1-28   | 0.766 | 1-28   | 1.495 |
|   |   | 1965              |       | 1965   |       | 1965    |   | 1969    |       | 1965     |       | 1965  |       | 1965   |       | 1965   |       |

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. Station average precipitation amounts are based on 1968-74 data. Station average runoff amounts are based on record period (1963-74). For long-time precipitation records, see National Weather Service records at Boise, Idaho; 59 miles N.E. of watershed.

| 1974 DAILY PRECIPITATION (inches) |       |       |      |       |       |      |       |       |      |       |       |       |      | REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017) |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|-------|------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan   | Feb   | Mar  | Apr   | May   | Jun  | Jul   | Aug   | Sep  | Oct   | Nov   | Dec   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.0 T | 0.10  | 0.98 | 0.27  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.02  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0   | 0.0   | 0.28 | 0.05  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.02  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.0   | 0.0   | 0.01 | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0   | 0.21  | 0.07 | 0.0 T | 0.0   | 0.29 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.07  | 0.0 T | 0.07 | 0.11  | 0.0   | 0.58 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.0 T | 0.0   | 0.45 | 0.0   | 0.0   | 0.01 | 0.02  | 0.16  | 0.0  | 0.0   | 0.0   | 0.11  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.01  | 0.0   | 0.42 | 0.0   | 0.0   | 0.0  | 0.0   | 0.01  | 0.0  | 0.0   | 0.44  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.0   | 0.0   | 0.03 | 0.0   | 0.0   | 0.0  | 0.16  | 0.0   | 0.0  | 0.0 T | 0.01  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.0   | 0.0   | 0.0  | 0.05  | 0.0   | 0.0  | 0.22  | 0.0   | 0.0  | 0.52  | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0   | 0.0   | 0.0  | 0.01  | 0.0   | 0.0  | 0.08  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.01  | 0.0   | 0.0  | 0.11  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.27  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.16  | 0.0   | 0.16 | 0.01  | 0.38  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.29  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.04  | 0.0   | 0.10 | 0.0   | 0.0   | 0.0  | 0.0   | 0.01  | 0.0  | 0.0   | 0.0   | 0.01  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0   | 0.01  | 0.43 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.21  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0   | 0.0   | 0.03 | 0.0   | 0.04  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.21  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.28  | 0.07  | 0.01 | 0.0   | 0.09  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0   | 0.0   | 0.12 | 0.0   | 0.03  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.09  | 0.10  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.25  | 0.18  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.29  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.01  | 0.30  | 0.0  | 0.0   | 0.0 T | 0.0  | 0.0 T | 0.02  | 0.0  | 0.0   | 0.01  | 0.16  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.09  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0  | 0.06  | 0.0 T | 0.45  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0   | 0.04  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.18  | 0.0   | 0.05  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0 T | 0.03  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 T |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.35  | 0.0 T | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.16  | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.10  | 0.0   | 0.14 | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.05  | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.14  | 0.04  | 0.15 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.47  | 0.0 T | 0.07 | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.16  | 0.30  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0   | 0.01  | 0.01 | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.56  | 0.0   | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0   |       | 0.12 | 0.0   | 0.01  | 0.0  | 0.03  | 0.0   | 0.0  | 0.34  | 0.0   | 0.0 T |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.01  |       | 0.08 | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.19  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.18  |       | 0.0  |       | 0.0   |      | 0.0 T |       |      |       |       | 0.0   |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |       | 1.82  | 0.99 | 3.73  | 0.63  | 0.55 | 0.88  | 0.51  | 0.20 | 0.0   | 2.17  | 1.09  | 2.61 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |       | 3.35  | 1.33 | 2.27  | 1.92  | 1.00 | 1.99  | 0.27  | 0.67 | 1.19  | 1.61  | 2.61  | 2.61 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IBHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Waters

| 1974   | DAILY PRECIPITATION (inches) |       |       |       |       | REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017) |       |       |     |       |       |       |
|--------|------------------------------|-------|-------|-------|-------|---|-------|-------|-----|-------|-------|-------|
| Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep | Oct   | Nov   | Dec   |
| 1      | 0.0 T                        | 0.06  | 0.69  | 0.22  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.02  | 0.0   |
| 2      | 0.0                          | 0.0   | 0.19  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.02  | 0.0   |
| 3      | 0.0                          | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 4      | 0.0                          | 0.13  | 0.03  | 0.0 T | 0.0   | 0.25  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.19  |
| 5      | 0.07                         | 0.0 T | 0.03  | 0.09  | 0.0   | 0.49  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.01  |
| 6      | 0.0 T                        | 0.0   | 0.22  | 0.0   | 0.0   | 0.01  | 0.02  | 0.14  | 0.0 | 0.0   | 0.0   | 0.09  |
| 7      | 0.01                         | 0.0   | 0.20  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.43  | 0.0   |
| 8      | 0.0                          | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.15  | 0.0   | 0.0 | 0.0 T | 0.01  | 0.0   |
| 9      | 0.0                          | 0.0   | 0.0   | 0.04  | 0.0   | 0.0   | 0.20  | 0.0   | 0.0 | 0.48  | 0.0   | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 11     | 0.01                         | 0.0   | 0.0   | 0.09  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.19  |
| 12     | 0.13                         | 0.0   | 0.10  | 0.01  | 0.27  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.21  |
| 13     | 0.03                         | 0.0   | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0 | 0.0   | 0.0   | 0.0 T |
| 14     | 0.0                          | 0.01  | 0.33  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.11  |
| 15     | 0.0                          | 0.0   | 0.02  | 0.0   | 0.02  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.10  |
| 16     | 0.25                         | 0.05  | 0.01  | 0.0   | 0.07  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 17     | 0.0                          | 0.0   | 0.10  | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.08  | 0.05  |
| 18     | 0.20                         | 0.11  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.26  | 0.0   |
| 19     | 0.01                         | 0.18  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.02  | 0.0 | 0.0   | 0.01  | 0.11  |
| 20     | 0.07                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.04  | 0.0 T | 0.32  |
| 21     | 0.0                          | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.14  | 0.0   | 0.03  |
| 22     | 0.0 T                        | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 T |
| 23     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.29  | 0.0 T | 0.0   |
| 24     | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.13  | 0.0   | 0.0   |
| 25     | 0.04                         | 0.0   | 0.10  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.05  | 0.0   |
| 26     | 0.07                         | 0.04  | 0.13  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 27     | 0.22                         | 0.0 T | 0.07  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.12  | 0.17  |
| 28     | 0.0                          | 0.0 T | 0.01  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.51  | 0.0   | 0.0   |
| 29     | 0.0                          | 0.0   | 0.09  | 0.0   | 0.01  | 0.0   | 0.03  | 0.0   | 0.0 | 0.31  | 0.0   | 0.0 T |
| 30     | 0.0 T                        | 0.07  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.11  |
| 31     | 0.09                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| TOTAL  | 1.20                         | 0.65  | 2.45  | 0.51  | 0.40  | 0.75  | 0.47  | 0.17  | 0.0 | 1.90  | 1.00  | 1.69  |
| STA AV |                              |       |       |       |       |   |       |       |     |       |       |       |

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |       |      |       |       | REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017) |       |       |     |       |       |       |
|--------|------------------------------|-------|------|-------|-------|---|-------|-------|-----|-------|-------|-------|
| Day    | Jan                          | Feb   | Mar  | Apr   | May   | Jun   | Jul   | Aug   | Sep | Oct   | Nov   | Dec   |
| 1      | 0.0 T                        | 0.08  | 0.84 | 0.24  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.02  | 0.0   |
| 2      | 0.0                          | 0.0   | 0.24 | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.02  | 0.0   |
| 3      | 0.0                          | 0.0   | 0.01 | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 4      | 0.0                          | 0.16  | 0.04 | 0.0 T | 0.0   | 0.27  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.23  |
| 5      | 0.07                         | 0.0 T | 0.04 | 0.10  | 0.0   | 0.54  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.01  |
| 6      | 0.0 T                        | 0.0   | 0.32 | 0.0   | 0.0   | 0.01  | 0.02  | 0.15  | 0.0 | 0.0   | 0.0   | 0.10  |
| 7      | 0.01                         | 0.0   | 0.30 | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0 | 0.0   | 0.43  | 0.0   |
| 8      | 0.0                          | 0.0   | 0.02 | 0.0   | 0.0   | 0.0   | 0.16  | 0.0   | 0.0 | 0.0 T | 0.02  | 0.0   |
| 9      | 0.0                          | 0.0   | 0.0  | 0.04  | 0.0   | 0.0   | 0.21  | 0.0   | 0.0 | 0.50  | 0.0   | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0   | 0.07  | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 11     | 0.01                         | 0.0   | 0.0  | 0.10  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.23  |
| 12     | 0.15                         | 0.0   | 0.14 | 0.01  | 0.33  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.25  |
| 13     | 0.03                         | 0.0   | 0.07 | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0 | 0.0   | 0.0   | 0.01  |
| 14     | 0.0                          | 0.01  | 0.38 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.16  |
| 15     | 0.0                          | 0.0   | 0.03 | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.15  |
| 16     | 0.27                         | 0.06  | 0.01 | 0.0   | 0.08  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 17     | 0.0                          | 0.0   | 0.11 | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.09  | 0.08  |
| 18     | 0.23                         | 0.14  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.28  | 0.0   |
| 19     | 0.01                         | 0.24  | 0.0  | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.02  | 0.0 | 0.0   | 0.01  | 0.14  |
| 20     | 0.08                         | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.04  | 0.0 T | 0.39  |
| 21     | 0.0                          | 0.04  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.16  | 0.0   | 0.04  |
| 22     | 0.0 T                        | 0.03  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 T |
| 23     | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.32  | 0.0 T | 0.0   |
| 24     | 0.0                          | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.14  | 0.0   | 0.0   |
| 25     | 0.07                         | 0.0   | 0.12 | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.05  | 0.0   |
| 26     | 0.10                         | 0.04  | 0.14 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| 27     | 0.33                         | 0.0 T | 0.07 | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.14  | 0.24  |
| 28     | 0.0                          | 0.01  | 0.01 | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.54  | 0.0   | 0.0   |
| 29     | 0.0                          | 0.0   | 0.11 | 0.0   | 0.01  | 0.0   | 0.03  | 0.0   | 0.0 | 0.33  | 0.0   | 0.0 T |
| 30     | 0.0 T                        | 0.07  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.15  |
| 31     | 0.13                         | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| TOTAL  | 1.49                         | 0.81  | 3.07 | 0.55  | 0.48  | 0.82  | 0.49  | 0.19  | 0.0 | 2.03  | 1.06  | 2.18  |
| STA AV |                              |       |      |       |       |   |       |       |     |       |       |       |

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

| 1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDARO SALMON CREEK WATERSHED (046017) |        |       |        |        |       |       |       |       |       |       |       |       |
|---|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day   | Jan    | Feb   | Mar    | Apr    | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1   | 4.004  | 4.419 | 5.892  | 13.371 | 3.626 | 1.473 | 0.189 | 0.076 | 0.038 | 0.076 | 0.793 | 0.680 |
| 2   | 3.815  | 3.701 | 6.308  | 12.011 | 2.455 | 1.208 | 0.227 | 0.076 | 0.038 | 0.076 | 0.831 | 0.906 |
| 3   | 3.626  | 3.702 | 5.326  | 10.916 | 2.078 | 1.171 | 0.189 | 0.075 | 0.076 | 0.113 | 0.831 | 0.869 |
| 4   | 3.324  | 3.588 | 4.759  | 10.009 | 2.644 | 1.398 | 0.189 | 0.038 | 0.038 | 0.076 | 0.793 | 0.944 |
| 5   | 3.173  | 2.266 | 7.025  | 9.783  | 2.946 | 1.511 | 0.189 | 0.038 | 0.038 | 0.113 | 0.831 | 0.944 |
| 6   | 3.022  | 2.380 | 9.820  | 9.141  | 3.060 | 1.360 | 0.264 | 0.076 | 0.037 | 0.151 | 0.831 | 0.907 |
| 7   | 2.871  | 3.211 | 8.007  | 8.385  | 3.059 | 1.473 | 0.302 | 0.075 | 0.038 | 0.113 | 0.869 | 0.906 |
| 8   | 2.795  | 3.173 | 6.950  | 8.385  | 2.682 | 1.473 | 0.264 | 0.038 | 0.038 | 0.113 | 1.208 | 0.680 |
| 9   | 2.795  | 2.984 | 24.173 | 8.536  | 2.569 | 1.397 | 0.302 | 0.038 | 0.076 | 0.227 | 0.944 | 0.755 |
| 10  | 2.795  | 2.908 | 8.007  | 7.894  | 2.681 | 1.209 | 0.453 | 0.038 | 0.038 | 0.113 | 0.869 | 0.793 |
| 11  | 2.757  | 2.984 | 11.520 | 7.856  | 2.229 | 1.095 | 0.756 | 0.038 | 0.038 | 0.151 | 0.793 | 1.095 |
| 12  | 2.606  | 3.059 | 17.790 | 7.441  | 3.361 | 1.095 | 0.529 | 0.038 | 0.075 | 0.113 | 0.869 | 1.058 |
| 13  | 2.455  | 2.946 | 16.128 | 6.761  | 3.022 | 0.944 | 0.415 | 0.038 | 0.076 | 0.151 | 0.869 | 0.868 |
| 14  | 7.139  | 2.908 | 24.173 | 6.535  | 2.908 | 0.907 | 0.378 | 0.037 | 0.076 | 0.189 | 0.868 | 1.095 |
| 15  | 24.135 | 2.908 | 34.824 | 6.459  | 2.720 | 0.793 | 0.302 | 0.076 | 0.075 | 0.227 | 0.869 | 1.209 |
| 16  | 18.243 | 3.135 | 33.918 | 6.270  | 2.757 | 0.604 | 0.340 | 0.038 | 0.076 | 0.189 | 0.831 | 1.549 |
| 17  | 20.887 | 2.833 | 43.096 | 6.383  | 2.833 | 0.378 | 0.340 | 0.038 | 0.076 | 0.227 | 0.869 | 1.398 |
| 18  | 15.599 | 3.022 | 34.069 | 6.723  | 2.682 | 0.227 | 0.340 | 0.038 | 0.076 | 0.302 | 1.171 | 1.133 |
| 19  | 14.579 | 3.777 | 25.004 | 6.836  | 2.568 | 0.264 | 0.340 | 0.038 | 0.037 | 0.302 | 0.944 | 1.171 |
| 20  | 11.218 | 2.946 | 18.772 | 6.044  | 2.342 | 0.302 | 0.378 | 0.037 | 0.076 | 0.340 | 0.906 | 2.946 |
| 21  | 8.498  | 3.135 | 15.146 | 5.023  | 2.229 | 0.378 | 0.340 | 0.038 | 0.076 | 0.491 | 0.869 | 2.644 |
| 22  | 7.781  | 3.097 | 13.069 | 5.590  | 1.889 | 0.415 | 0.264 | 0.076 | 0.076 | 0.529 | 0.831 | 1.322 |
| 23  | 6.723  | 3.248 | 11.369 | 5.514  | 1.359 | 0.415 | 0.227 | 0.038 | 0.075 | 0.604 | 0.831 | 1.020 |
| 24  | 6.119  | 3.286 | 10.651 | 4.646  | 1.247 | 0.302 | 0.151 | 0.038 | 0.076 | 0.907 | 0.906 | 1.398 |
| 25  | 5.515  | 3.097 | 11.104 | 4.570  | 1.473 | 0.227 | 0.113 | 0.075 | 0.076 | 0.642 | 0.869 | 1.511 |
| 26  | 5.023  | 2.833 | 12.729 | 4.457  | 1.738 | 0.227 | 0.113 | 0.038 | 0.075 | 0.604 | 0.755 | 1.360 |
| 27  | 4.835  | 2.606 | 13.182 | 4.382  | 1.775 | 0.189 | 0.076 | 0.038 | 0.076 | 0.604 | 0.907 | 1.586 |
| 28  | 4.532  | 2.871 | 13.560 | 3.890  | 1.737 | 0.264 | 0.038 | 0.038 | 0.076 | 0.869 | 0.793 | 1.208 |
| 29  | 4.230  |       | 13.484 | 3.211  | 1.775 | 0.227 | 0.076 | 0.038 | 0.076 | 1.397 | 0.718 | 0.793 |
| 30  | 4.004  |       | 14.428 | 3.361  | 1.889 | 0.264 | 0.037 | 0.038 | 0.113 | 0.869 | 0.718 | 1.322 |
| 31  | 4.835  |       | 12.766 |        | 1.624 |       | 0.076 | 0.075 |       | 0.755 |       | 1.133 |
| MEAN  | 6.901  | 3.108 | 15.161 | 7.013  | 2.386 | 0.773 | 0.264 | 0.049 | 0.064 | 0.375 | 0.866 | 1.200 |
| INCRS   | 0.566  | 0.230 | 1.244  | 0.557  | 0.196 | 0.061 | 0.022 | 0.004 | 0.005 | 0.031 | 0.069 | 0.099 |
| STA AV  | 0.773  | 0.370 | 0.607  | 0.488  | 0.271 | 0.126 | 0.026 | 0.031 | 0.020 | 0.044 | 0.091 | 0.176 |

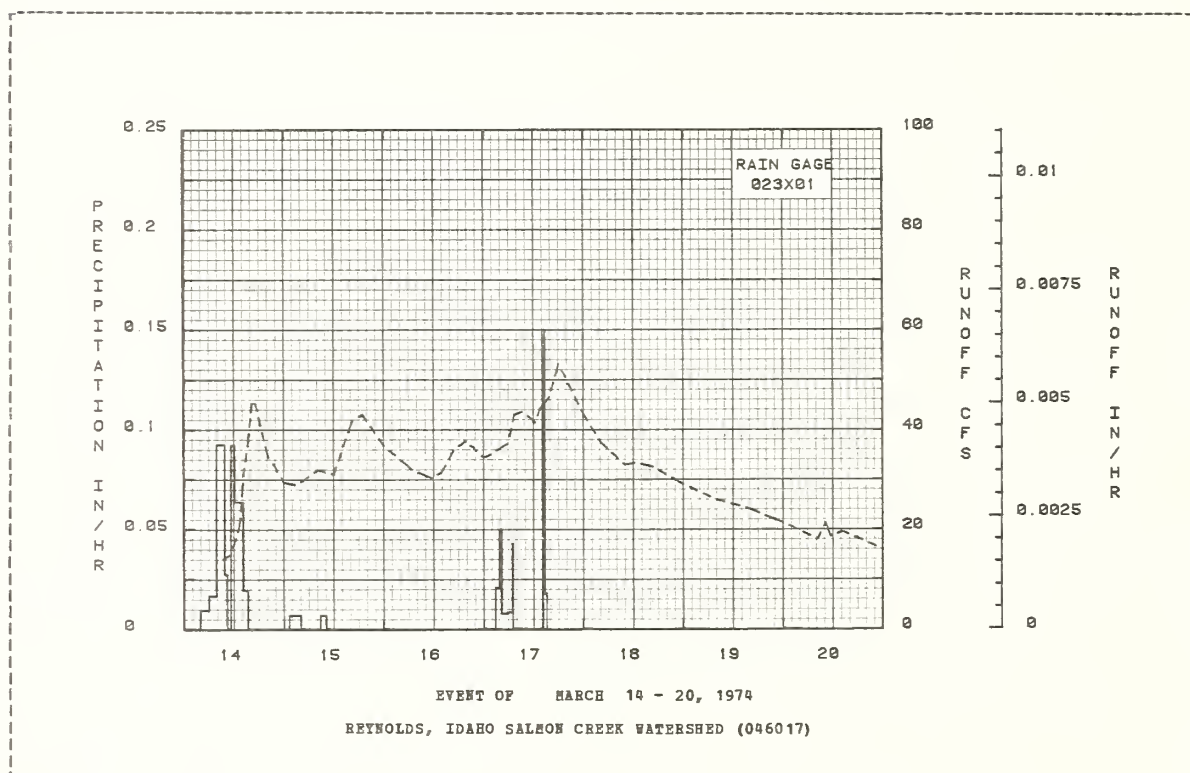
NOTES: To convert CFS to IN/DAY, multiply by 0.002648. STA AV amounts are based on 12 yr (1963-74) record period.

| 1974   | SELECTED RUNOFF EVENT |          |          | REYNOLDS, IDARO SALMON CREEK WATERSHED (046017) |           |          |        |        |        |          |        |  |
|--|-----------------------|----------|----------|---|-----------|----------|--------|--------|--------|----------|--------|--|
| ANTECEDENT CONDITIONS  |                       |          | RAINFALL |   |           |          | RUNOFF |        |        |          |        |  |
| Date   | Rainfall              | Runoff   | Date     | Time  | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |        |  |
| Mo-Day   | (inches)              | (inches) | Mo-Day   | of Day  | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |        |  |
| EVENT OF MARCH 14 - 20, 1974   |                       |          |          |   |           |          |        |        |        |          |        |  |
| 3-14   | RG 023X01<br>0.0      | 0.015    | 3-14     | RG 023X01<br>353                                | 0.0       | 0.0      | 3-14   | 922    | 14.105 | 0.0      |        |  |
|  |                       |          |          | 559   | 0.0095    | 0.02     |        | 1110   | 15.084 | 0.0029   |        |  |
|  |                       |          |          | 747   | 0.0167    | 0.05     |        | 1222   | 18.205 | 0.0051   |        |  |
|  |                       |          |          | 937   | 0.0927    | 0.22     |        | 1318   | 20.902 | 0.0071   |        |  |
|  |                       |          |          | 1021  | 0.0273    | 0.24     |        | 1404   | 29.362 | 0.0093   |        |  |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt. |                       |          |          | 1112  | 0.0       | 0.24     |        | 1516   | 37.750 | 0.0137   |        |  |
|  |                       |          |          | 1204  | 0.0923    | 0.32     |        | 1616   | 45.280 | 0.0183   |        |  |
|  |                       |          |          | 1416  | 0.0636    | 0.46     |        | 1702   | 45.280 | 0.0221   |        |  |
|  |                       |          |          | 1518  | 0.0194    | 0.48     |        | 2012   | 34.321 | 0.0360   |        |  |
|  |                       |          |          | 3-15  | 114       | 0.0      | 0.48   |        | 2132   | 32.917   | 0.0410 |  |
|  |                       |          |          |   | 402       | 0.0071   | 0.50   |        | 2400   | 29.362   | 0.0494 |  |
|  |                       |          |          |   | 846       | 0.0      | 0.50   | 3-15   | 226    | 28.936   | 0.0572 |  |
|  |                       |          |          |   | 1012      | 0.0070   | 0.51   |        | 422    | 29.791   | 0.0635 |  |
|  |                       |          |          | 3-17  | 246       | 0.0      | 0.51   |        | 804    | 32.003   | 0.0761 |  |
|  |                       |          |          |   | 344       | 0.0207   | 0.53   |        | 1156   | 31.105   | 0.0896 |  |
|  |                       |          |          | 420   | 0.0500    | 0.56     |        | 1630   | 41.941 | 0.1080   |        |  |
|  |                       |          |          | 540   | 0.0075    | 0.57     |        | 1848   | 43.035 | 0.1188   |        |  |
|  |                       |          |          | 650   | 0.0086    | 0.58     |        | 2400   | 36.748 | 0.1416   |        |  |
|  |                       |          |          | 704   | 0.0429    | 0.59     | 3-16   | 644    | 32.003 | 0.1672   |        |  |
|  |                       |          |          | 1419  | 0.0       | 0.59     |        | 1126   | 30.225 | 0.1833   |        |  |
|  |                       |          |          | 1439  | 0.1500    | 0.64     |        | 1354   | 31.552 | 0.1917   |        |  |
|  |                       |          |          | 1513  | 0.0176    | 0.65     |        | 1640   | 35.764 | 0.2020   |        |  |
|  |                       |          |          |   |           |          |        | 1934   | 37.750 | 0.2137   |        |  |
|  |                       |          |          |   |           |          |        | 2400   | 34.321 | 0.2314   |        |  |
|  |                       |          |          |   |           |          | 3-17   | 552    | 37.247 | 0.2545   |        |  |
|  |                       |          |          |   |           |          |        | 722    | 43.035 | 0.2612   |        |  |
|  |                       |          |          |   |           |          |        | 912    | 43.589 | 0.2699   |        |  |
|  |                       |          |          |   |           |          |        | 1224   | 41.401 | 0.2849   |        |  |
|  |                       |          |          |   |           |          |        | 1330   | 44.148 | 0.2901   |        |  |
|  |                       |          |          |   |           |          |        | 1544   | 46.431 | 0.3013   |        |  |

NOTES: To convert CFS to IN/HR, multiply by .0001103.

| 1974                                     |          |          | REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017) |        |           |          |        |        |        |          |
|--|----------|----------|---|--------|-----------|----------|--------|--------|--------|----------|
| SELECTED RUNOFF EVENT                    |          |          |   |        |           |          |        |        |        |          |
| ANTECEDENT CONDITIONS                    |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |
| Date                                     | Rainfall | Runoff   | Date  | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                   | (inches) | (inches) | Mo-Day  | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF MARCH 14 - 20, 1974 (CONTINUED) |          |          |   |        |           |          |        |        |        |          |
|  |          |          |   |        |           |          | 3-17   | 1758   | 53.113 | 0.3135   |
|  |          |          |   |        |           |          |        | 2400   | 43.035 | 0.3455   |
|  |          |          |   |        |           |          | 3-18   | 420    | 37.247 | 0.3647   |
|  |          |          |   |        |           |          |        | 958    | 32.917 | 0.3865   |
|  |          |          |   |        |           |          |        | 1212   | 33.381 | 0.3947   |
|  |          |          |   |        |           |          |        | 1640   | 32.458 | 0.4109   |
|  |          |          |   |        |           |          |        | 2400   | 28.936 | 0.4357   |
|  |          |          |   |        |           |          | 3-19   | 812    | 25.807 | 0.4605   |
|  |          |          |   |        |           |          |        | 1634   | 23.892 | 0.4834   |
|  |          |          |   |        |           |          |        | 2044   | 22.371 | 0.4941   |
|  |          |          |   |        |           |          |        | 2400   | 21.262 | 0.5019   |
|  |          |          |   |        |           |          | 3-20   | 820    | 17.893 | 0.5199   |
|  |          |          |   |        |           |          |        | 1014   | 21.262 | 0.5240   |
|  |          |          |   |        |           |          |        | 1128   | 18.523 | 0.5267   |
|  |          |          |   |        |           |          |        | 1402   | 19.510 | 0.5321   |
|  |          |          |   |        |           |          |        | 2400   | 15.870 | 0.5516   |

NOTES: To convert CFS to IN/HR, multiply by .0001103.





## REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.  
Lat. 43 deg. 14 min. 42 sec. N.; Long. 116 deg. 45 min. 30 sec. W.

AREA: 7846.00 acres 12.26 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               |            |             |             |       |       |       |       | REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084) |       |      |       |  |  |  |  |  |  |  |  |  |  |
|---|---|------------------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|-------|-------|-------|-------|--|-------|------|-------|--|--|--|--|--|--|--|--|--|--|
|   |   | Jau                    | Feb         | Mar          | Apr          | May           | Jun        | Jul         | Aug         | Sep   | Oct   | Nov   | Dec   | Annual   |       |      |       |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 1.49                   | 0.60        | 3.44         | 0.60         | 0.29          | 0.69       | 0.46        | 0.26        | 0.0   | 2.04  | 1.09  | 2.36  | 13.32  |       |      |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.626                  | 0.217       | 1.657        | 0.771        | 0.143         | 0.039      | 0.008       | 0.002       | 0.000 | 0.001 | 0.007 | 0.045 | 3.515  |       |      |       |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 2.88                   | 1.06        | 1.94         | 1.59         | 0.77          | 1.72       | 0.25        | 0.69        | 1.06  | 1.39  | 2.20  | 2.36  | 17.91  |       |      |       |  |  |  |  |  |  |  |  |  |  |
|   | Q | 0.645                  | 0.268       | 0.693        | 0.455        | 0.126         | 0.062      | 0.011       | 0.003       | 0.002 | 0.005 | 0.027 | 0.105 | 2.401  |       |      |       |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |            |             |             |       |       |       |       |  |       |      |       |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date |       |       |       |       |  |       |      |       |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 3-14                   | 0.009       | 3-14         | 0.009        | 3-14          | 0.017      | 3-14        | 0.045       | 3-15  | 0.079 | 3-16  | 0.142 | 3-14   | 0.265 | 3-12 | 0.815 |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |            |             |             |       |       |       |       |  |       |      |       |  |  |  |  |  |  |  |  |  |  |
|   |   | 1-21                   | 0.039       | 1-21         | 0.037        | 1-20          | 0.069      | 1-20        | 0.183       | 1-20  | 0.294 | 1-20  | 0.457 | 1-20   | 0.649 | 2-27 | 1.015 |  |  |  |  |  |  |  |  |  |  |
|   |   | 1969                   |             | 1969         |              | 1969          |            | 1969        |             | 1969  |       | 1969  |       | 1969   |       | 1972 |       |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. Station average precipitation amounts are based on 1968-74 record period. Station average streamflow amounts are based on 1963-74. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

| 1974   |       | DAILY PRECIPITATION (inches) |       |       |       |      | REYNOLDS, IDARO MACKS CREEK WATERSHED (046084) |       |      |      |       |       |  |  |
|--------|-------|------------------------------|-------|-------|-------|------|--|-------|------|------|-------|-------|--|--|
| Day    | Jau   | Feb                          | Mar   | Apr   | May   | Jun  | Jul  | Aug   | Sep  | Oct  | Nov   | Dec   |  |  |
| 1      | 0.0 T | 0.04                         | 0.72  | 0.28  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0 T | 0.0   |  |  |
| 2      | 0.0   | 0.0 T                        | 0.16  | 0.05  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.01  | 0.0   |  |  |
| 3      | 0.0   | 0.0                          | 0.01  | 0.02  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |  |  |
| 4      | 0.0   | 0.07                         | 0.04  | 0.0   | 0.0   | 0.19 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.07  |  |  |
| 5      | 0.05  | 0.0 T                        | 0.02  | 0.11  | 0.0   | 0.50 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0 T |  |  |
| 6      | 0.02  | 0.0                          | 0.48  | 0.0   | 0.0   | 0.0  | 0.0 T  | 0.25  | 0.0  | 0.0  | 0.0   | 0.07  |  |  |
| 7      | 0.01  | 0.0                          | 0.33  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0 T | 0.0  | 0.0  | 0.50  | 0.0 T |  |  |
| 8      | 0.0   | 0.0                          | 0.04  | 0.0   | 0.0   | 0.0  | 0.12   | 0.0   | 0.0  | 0.02 | 0.01  | 0.01  |  |  |
| 9      | 0.0   | 0.0                          | 0.0   | 0.05  | 0.0   | 0.0  | 0.22   | 0.0   | 0.0  | 0.52 | 0.0   | 0.0   |  |  |
| 10     | 0.0   | 0.0                          | 0.0   | 0.02  | 0.0   | 0.0  | 0.12   | 0.0   | 0.0  | 0.0  | 0.0 T | 0.0   |  |  |
| 11     | 0.0 T | 0.0                          | 0.0 T | 0.05  | 0.0   | 0.0  | 0.0 T  | 0.0   | 0.0  | 0.0  | 0.0   | 0.26  |  |  |
| 12     | 0.10  | 0.0                          | 0.12  | 0.0 T | 0.17  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.32  |  |  |
| 13     | 0.05  | 0.0                          | 0.06  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.01  |  |  |
| 14     | 0.0   | 0.02                         | 0.41  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.26  |  |  |
| 15     | 0.01  | 0.0                          | 0.04  | 0.0   | 0.01  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.26  |  |  |
| 16     | 0.25  | 0.08                         | 0.03  | 0.0   | 0.08  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0 T |  |  |
| 17     | 0.0   | 0.0                          | 0.08  | 0.0   | 0.02  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.11  | 0.08  |  |  |
| 18     | 0.29  | 0.12                         | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.34  | 0.0 T |  |  |
| 19     | 0.0 T | 0.20                         | 0.01  | 0.0   | 0.0 T | 0.0  | 0.0 T  | 0.01  | 0.0  | 0.0  | 0.01  | 0.12  |  |  |
| 20     | 0.05  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0 T | 0.0  | 0.03 | 0.0 T | 0.41  |  |  |
| 21     | 0.0 T | 0.01                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.08 | 0.0   | 0.04  |  |  |
| 22     | 0.02  | 0.02                         | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0 T |  |  |
| 23     | 0.01  | 0.0                          | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.38 | 0.0 T | 0.0 T |  |  |
| 24     | 0.0 T | 0.0                          | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.13 | 0.0   | 0.0   |  |  |
| 25     | 0.04  | 0.0 T                        | 0.17  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.04  | 0.0   |  |  |
| 26     | 0.10  | 0.03                         | 0.12  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0 T |  |  |
| 27     | 0.27  | 0.0 T                        | 0.10  | 0.01  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.07  | 0.29  |  |  |
| 28     | 0.0   | 0.01                         | 0.01  | 0.01  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.47 | 0.0   | 0.01  |  |  |
| 29     | 0.0   |                              | 0.32  | 0.0   | 0.01  | 0.0  | 0.0 T  | 0.0   | 0.0  | 0.40 | 0.0   | 0.01  |  |  |
| 30     | 0.0   |                              | 0.17  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.14  |  |  |
| 31     | 0.22  |                              | 0.0 T |       | 0.0   |      | 0.0 T  | 0.0   |      | 0.01 |       | 0.0   |  |  |
| TOTAL  | 1.49  | 0.60                         | 3.44  | 0.60  | 0.29  | 0.69 | 0.46   | 0.26  | 0.0  | 2.04 | 1.09  | 2.36  |  |  |
| STA AV | 2.88  | 1.06                         | 1.94  | 1.59  | 0.77  | 1.72 | 0.25   | 0.69  | 1.06 | 1.39 | 2.20  | 2.36  |  |  |

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. B. Ramon, "Computing Actual Precipitation", Proceedings of WHO-IDRS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

| 1974   | DAILY PRECIPITATION (inches) |       |       |       |       | REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084) |       |       |     |      |       |       |
|--------|------------------------------|-------|-------|-------|-------|--|-------|-------|-----|------|-------|-------|
| Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep | Oct  | Nov   | Dec   |
| 1      | 0.0 T                        | 0.04  | 0.49  | 0.20  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0 T | 0.0   |
| 2      | 0.0                          | 0.0 T | 0.11  | 0.04  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.01  | 0.0   |
| 3      | 0.0                          | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0   |
| 4      | 0.0                          | 0.06  | 0.02  | 0.0   | 0.0   | 0.18   | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.05  |
| 5      | 0.05                         | 0.0 T | 0.01  | 0.09  | 0.0   | 0.46   | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 6      | 0.02                         | 0.0   | 0.30  | 0.0   | 0.0   | 0.0  | 0.0 T | 0.23  | 0.0 | 0.0  | 0.0   | 0.06  |
| 7      | 0.01                         | 0.0   | 0.21  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0 | 0.0  | 0.45  | 0.0   |
| 8      | 0.0                          | 0.0   | 0.03  | 0.0   | 0.0   | 0.0  | 0.11  | 0.0   | 0.0 | 0.02 | 0.01  | 0.0 T |
| 9      | 0.0                          | 0.0   | 0.0   | 0.04  | 0.0   | 0.0  | 0.19  | 0.0   | 0.0 | 0.49 | 0.0   | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0   | 0.02  | 0.0   | 0.0  | 0.10  | 0.0   | 0.0 | 0.0  | 0.0 T | 0.0   |
| 11     | 0.0 T                        | 0.0   | 0.0 T | 0.04  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0 | 0.0  | 0.0   | 0.18  |
| 12     | 0.10                         | 0.0   | 0.08  | 0.0 T | 0.14  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.21  |
| 13     | 0.05                         | 0.0   | 0.03  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 14     | 0.0                          | 0.01  | 0.34  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.11  |
| 15     | 0.01                         | 0.0   | 0.03  | 0.0   | 0.01  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.11  |
| 16     | 0.23                         | 0.06  | 0.02  | 0.0   | 0.07  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 17     | 0.0                          | 0.0   | 0.06  | 0.0   | 0.02  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.09  | 0.05  |
| 18     | 0.25                         | 0.09  | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.30  | 0.0 T |
| 19     | 0.0 T                        | 0.15  | 0.01  | 0.0   | 0.0 T | 0.0  | 0.0 T | 0.01  | 0.0 | 0.0  | 0.0 T | 0.09  |
| 20     | 0.04                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0 | 0.02 | 0.0 T | 0.32  |
| 21     | 0.0 T                        | 0.01  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.06 | 0.0   | 0.03  |
| 22     | 0.01                         | 0.02  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 23     | 0.01                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.29 | 0.0 T | 0.0 T |
| 24     | 0.0 T                        | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.10 | 0.0   | 0.0   |
| 25     | 0.03                         | 0.0 T | 0.16  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.04  | 0.0   |
| 26     | 0.06                         | 0.03  | 0.11  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 27     | 0.17                         | 0.0 T | 0.09  | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.07  | 0.16  |
| 28     | 0.0                          | 0.01  | 0.01  | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.43 | 0.0   | 0.0 T |
| 29     | 0.0                          |       | 0.28  | 0.0   | 0.01  | 0.0  | 0.0 T | 0.0   | 0.0 | 0.36 | 0.0   | 0.01  |
| 30     | 0.0                          |       | 0.14  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.08  |
| 31     | 0.17                         |       | 0.0 T |       | 0.0   |  | 0.0   | 0.0   |     | 0.01 |       | 0.0   |
| TOTAL  | 1.21                         | 0.48  | 2.53  | 0.46  | 0.25  | 0.64   | 0.40  | 0.24  | 0.0 | 1.78 | 0.97  | 1.46  |
| STA AV |                              |       |       |       |       |  |       |       |     |      |       |       |

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |       |       |       |       | REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084) |       |       |     |      |       |       |
|--------|------------------------------|-------|-------|-------|-------|--|-------|-------|-----|------|-------|-------|
| Day    | Jan                          | Feb   | Mar   | Apr   | May   | Jun  | Jul   | Aug   | Sep | Oct  | Nov   | Dec   |
| 1      | 0.0 T                        | 0.04  | 0.59  | 0.24  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0 T | 0.0   |
| 2      | 0.0                          | 0.0 T | 0.14  | 0.05  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.01  | 0.0   |
| 3      | 0.0                          | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0   |
| 4      | 0.0                          | 0.06  | 0.03  | 0.0   | 0.0   | 0.18   | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.06  |
| 5      | 0.05                         | 0.0 T | 0.02  | 0.10  | 0.0   | 0.48   | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 6      | 0.02                         | 0.0   | 0.38  | 0.0   | 0.0   | 0.0  | 0.0 T | 0.24  | 0.0 | 0.0  | 0.0   | 0.07  |
| 7      | 0.01                         | 0.0   | 0.27  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0 | 0.0  | 0.48  | 0.0 T |
| 8      | 0.0                          | 0.0   | 0.04  | 0.0   | 0.0   | 0.0  | 0.11  | 0.0   | 0.0 | 0.02 | 0.01  | 0.0 T |
| 9      | 0.0                          | 0.0   | 0.0   | 0.05  | 0.0   | 0.0  | 0.21  | 0.0   | 0.0 | 0.51 | 0.0   | 0.0   |
| 10     | 0.0                          | 0.0   | 0.0   | 0.02  | 0.0   | 0.0  | 0.11  | 0.0   | 0.0 | 0.0  | 0.0 T | 0.0   |
| 11     | 0.0 T                        | 0.0   | 0.0 T | 0.05  | 0.0   | 0.0  | 0.0 T | 0.0   | 0.0 | 0.0  | 0.0   | 0.22  |
| 12     | 0.10                         | 0.0   | 0.10  | 0.0 T | 0.15  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.27  |
| 13     | 0.05                         | 0.0   | 0.04  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.01  |
| 14     | 0.0                          | 0.02  | 0.37  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.18  |
| 15     | 0.01                         | 0.0   | 0.04  | 0.0   | 0.01  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.18  |
| 16     | 0.24                         | 0.07  | 0.02  | 0.0   | 0.07  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 17     | 0.0                          | 0.0   | 0.07  | 0.0   | 0.02  | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.10  | 0.07  |
| 18     | 0.27                         | 0.10  | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.32  | 0.0 T |
| 19     | 0.0 T                        | 0.17  | 0.01  | 0.0   | 0.0 T | 0.0  | 0.0 T | 0.01  | 0.0 | 0.0  | 0.01  | 0.11  |
| 20     | 0.05                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.0 | 0.03 | 0.0 T | 0.37  |
| 21     | 0.0 T                        | 0.01  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.07 | 0.0   | 0.03  |
| 22     | 0.02                         | 0.02  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 23     | 0.01                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.34 | 0.0 T | 0.0 T |
| 24     | 0.0 T                        | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.12 | 0.0   | 0.0   |
| 25     | 0.03                         | 0.0 T | 0.17  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.04  | 0.0   |
| 26     | 0.08                         | 0.03  | 0.12  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.0 T |
| 27     | 0.22                         | 0.0 T | 0.09  | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.07  | 0.22  |
| 28     | 0.0                          | 0.01  | 0.01  | 0.01  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.46 | 0.0   | 0.01  |
| 29     | 0.0                          |       | 0.30  | 0.0   | 0.01  | 0.0  | 0.0 T | 0.0   | 0.0 | 0.38 | 0.0   | 0.01  |
| 30     | 0.0                          |       | 0.15  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0 | 0.0  | 0.0   | 0.11  |
| 31     | 0.19                         |       | 0.0 T |       | 0.0   |  | 0.0 T | 0.0   |     | 0.01 |       | 0.0   |
| TOTAL  | 1.35                         | 0.53  | 2.96  | 0.54  | 0.26  | 0.66   | 0.43  | 0.25  | 0.0 | 1.94 | 1.04  | 1.92  |
| STA AV |                              |       |       |       |       |  |       |       |     |      |       |       |

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

| 1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084) |        |       |        |        |       |       |       |       |       |       |       |       |
|--|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day  | Jan    | Feb   | Mar    | Apr    | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 1.615  | 4.121 | 9.922  | 20.603 | 3.263 | 0.594 | 0.132 | 0.066 | 0.0   | 0.0   | 0.033 | 0.132 |
| 2  | 1.022  | 3.165 | 7.780  | 19.745 | 3.066 | 0.560 | 0.132 | 0.033 | 0.033 | 0.0   | 0.033 | 0.165 |
| 3  | 1.681  | 3.066 | 4.813  | 17.010 | 2.802 | 0.495 | 0.165 | 0.033 | 0.0   | 0.033 | 0.0   | 0.165 |
| 4  | 1.681  | 2.868 | 4.186  | 14.933 | 2.274 | 0.561 | 0.132 | 0.033 | 0.0   | 0.0   | 0.033 | 0.198 |
| 5  | 1.121  | 2.275 | 6.955  | 14.306 | 2.472 | 0.824 | 0.132 | 0.033 | 0.0   | 0.0   | 0.033 | 0.198 |
| 6  | 1.187  | 2.011 | 10.746 | 12.988 | 2.274 | 0.758 | 0.099 | 0.033 | 0.0   | 0.0   | 0.033 | 0.231 |
| 7  | 0.956  | 2.670 | 6.692  | 11.274 | 1.813 | 0.791 | 0.099 | 0.033 | 0.0   | 0.033 | 0.033 | 0.231 |
| 8  | 0.956  | 2.571 | 5.406  | 10.812 | 1.549 | 0.725 | 0.132 | 0.033 | 0.0   | 0.0   | 0.033 | 0.198 |
| 9  | 0.791  | 2.373 | 5.406  | 10.713 | 1.549 | 0.692 | 0.132 | 0.033 | 0.0   | 0.033 | 0.066 | 0.198 |
| 10   | 0.956  | 2.275 | 6.527  | 10.285 | 1.451 | 0.659 | 0.099 | 0.0   | 0.0   | 0.0   | 0.033 | 0.198 |
| 11   | 1.088  | 2.472 | 11.966 | 9.790  | 1.648 | 0.560 | 0.132 | 0.033 | 0.0   | 0.0   | 0.033 | 0.297 |
| 12   | 1.055  | 2.439 | 29.107 | 9.329  | 1.714 | 0.461 | 0.099 | 0.0   | 0.033 | 0.033 | 0.066 | 0.362 |
| 13   | 2.110  | 2.340 | 18.427 | 8.439  | 1.747 | 0.396 | 0.066 | 0.033 | 0.0   | 0.0   | 0.066 | 0.395 |
| 14   | 11.834 | 2.340 | 31.184 | 7.549  | 1.681 | 0.362 | 0.099 | 0.0   | 0.0   | 0.0   | 0.066 | 0.428 |
| 15   | 40.117 | 2.439 | 45.458 | 6.626  | 1.681 | 0.362 | 0.066 | 0.033 | 0.0   | 0.0   | 0.066 | 0.495 |
| 16   | 21.526 | 2.769 | 37.348 | 6.131  | 1.747 | 0.330 | 0.066 | 0.0   | 0.0   | 0.0   | 0.066 | 0.824 |
| 17   | 22.284 | 2.472 | 46.875 | 5.670  | 1.714 | 0.330 | 0.066 | 0.0   | 0.0   | 0.033 | 0.099 | 0.890 |
| 18   | 17.702 | 2.595 | 34.019 | 5.802  | 1.550 | 0.362 | 0.033 | 0.0   | 0.0   | 0.0   | 0.066 | 0.461 |
| 19   | 15.131 | 3.692 | 25.712 | 5.604  | 1.384 | 0.330 | 0.066 | 0.0   | 0.0   | 0.0   | 0.099 | 0.528 |
| 20   | 10.120 | 2.538 | 20.735 | 5.340  | 1.318 | 0.296 | 0.033 | 0.033 | 0.0   | 0.033 | 0.066 | 2.340 |
| 21   | 5.769  | 2.538 | 17.768 | 5.175  | 1.253 | 0.297 | 0.066 | 0.0   | 0.0   | 0.0   | 0.066 | 1.813 |
| 22   | 6.362  | 2.275 | 15.493 | 5.406  | 1.121 | 0.264 | 0.033 | 0.0   | 0.0   | 0.0   | 0.099 | 0.428 |
| 23   | 5.670  | 1.978 | 13.285 | 5.208  | 0.956 | 0.264 | 0.033 | 0.0   | 0.0   | 0.033 | 0.099 | 0.428 |
| 24   | 5.241  | 2.242 | 12.197 | 4.582  | 0.824 | 0.231 | 0.066 | 0.0   | 0.0   | 0.0   | 0.099 | 0.330 |
| 25   | 4.681  | 2.307 | 13.120 | 4.582  | 0.692 | 0.231 | 0.033 | 0.033 | 0.033 | 0.033 | 0.099 | 0.428 |
| 26   | 4.022  | 2.275 | 15.592 | 4.054  | 0.626 | 0.198 | 0.066 | 0.0   | 0.0   | 0.0   | 0.099 | 0.495 |
| 27   | 4.121  | 2.110 | 15.625 | 3.230  | 0.594 | 0.231 | 0.033 | 0.0   | 0.0   | 0.033 | 0.132 | 0.593 |
| 28   | 3.890  | 2.439 | 16.120 | 2.835  | 0.528 | 0.198 | 0.066 | 0.0   | 0.0   | 0.0   | 0.132 | 0.461 |
| 29   | 3.494  |       | 18.196 | 2.967  | 0.593 | 0.198 | 0.033 | 0.0   | 0.0   | 0.033 | 0.165 | 0.264 |
| 30   | 3.296  |       | 21.756 | 3.263  | 0.659 | 0.198 | 0.033 | 0.0   | 0.0   | 0.033 | 0.165 | 0.329 |
| 31   | 4.780  |       | 17.735 |        | 0.626 |       | 0.033 | 0.0   |       | 0.0   |       | 0.330 |
| MEAN   | 6.653  | 2.556 | 17.618 | 8.475  | 1.522 | 0.425 | 0.080 | 0.016 | 0.003 | 0.012 | 0.072 | 0.479 |
| INCRS  | 0.626  | 0.217 | 1.657  | 0.771  | 0.143 | 0.039 | 0.008 | 0.002 | 0.000 | 0.001 | 0.007 | 0.045 |
| STA AV   | 0.645  | 0.268 | 0.693  | 0.455  | 0.126 | 0.062 | 0.011 | 0.003 | 0.002 | 0.005 | 0.027 | 0.105 |

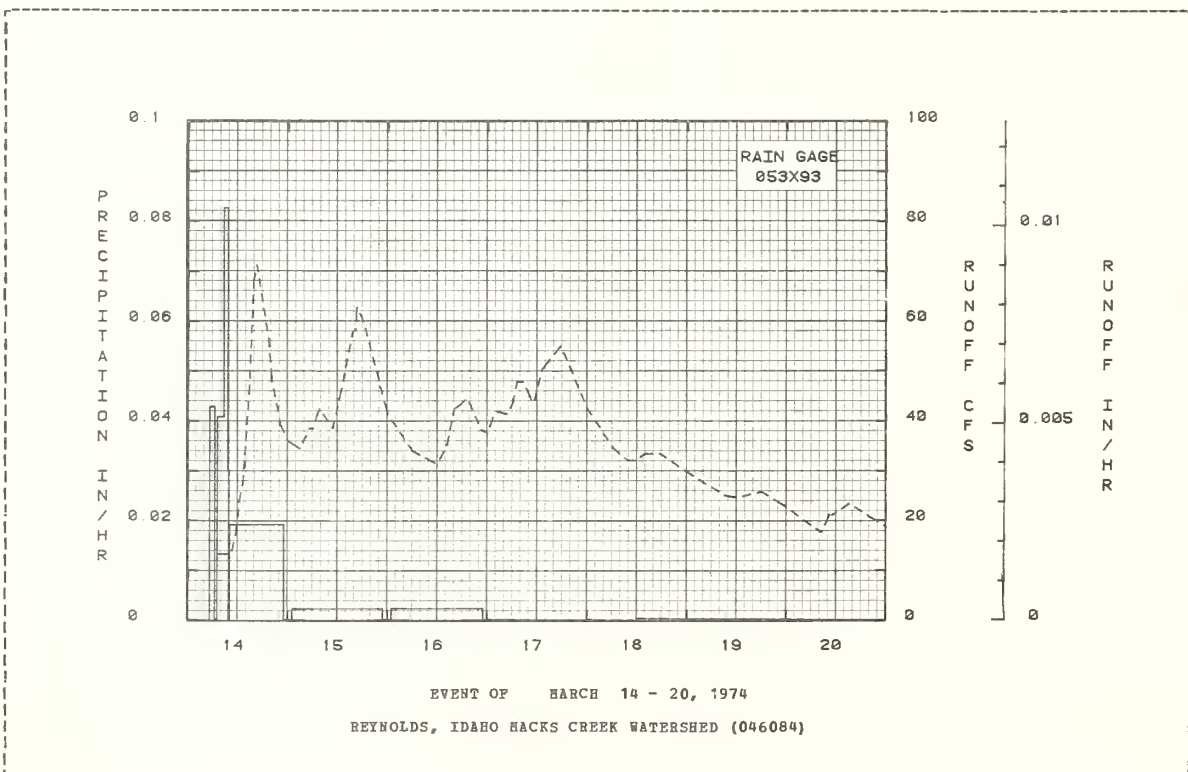
NOTES: To convert CPS to IN/DAY, multiply by 0.003034. STA AV amounts based on 12 yr (1963-74) record period.

| 1974 SELECTED RUNOFF EVENT REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084) |          |          |          |        |           |          |        |        |        |          |
|---|----------|----------|----------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL |        |           | RUNOFF   |        |        |        |          |
| Date  | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF MARCH 14 - 20, 1974  |          |          |          |        |           |          |        |        |        |          |
| RG 053X93   |          |          |          |        |           |          |        |        |        |          |
| 3-14  | 0.0      | 0.013    | 3-14     | 516    | 0.0       | 0.0      | 3-14   | 712    | 13.353 | 0.0      |
|   |          |          |          | 626    | 0.0429    | 0.05     |        | 918    | 13.286 | 0.0035   |
|   |          |          |          | 704    | 0.0       | 0.05     |        | 1036   | 14.165 | 0.0057   |
|   |          |          |          | 832    | 0.0409    | 0.11     |        | 1132   | 17.741 | 0.0076   |
|   |          |          |          | 930    | 0.0828    | 0.19     |        | 1222   | 24.160 | 0.0098   |
| WATERSHED CONDITIONS:   |          |          |          |        |           |          |        |        |        |          |
| The event is combined rain and snowmelt.                                  |          |          |          |        |           |          |        |        |        |          |
|   |          |          |          | 950    | 0.0300    | 0.20     |        | 1306   | 27.450 | 0.0122   |
|   |          |          |          | 1000   | 0.0       | 0.20     |        | 1444   | 47.188 | 0.0199   |
|   |          |          |          | 2300   | 0.0192    | 0.45     |        | 1542   | 68.166 | 0.0270   |
|   |          |          | 3-15     | 100    | 0.0       | 0.45     |        | 1626   | 71.361 | 0.0334   |
|   |          |          |          | 2300   | 0.0023    | 0.50     |        | 1916   | 56.340 | 0.0563   |
|   |          |          | 3-16     | 100    | 0.0       | 0.50     |        | 2008   | 47.806 | 0.0620   |
|   |          |          |          | 2300   | 0.0023    | 0.55     |        | 2212   | 39.085 | 0.0734   |
|   |          |          | 3-17     | 100    | 0.0       | 0.55     |        | 2400   | 35.917 | 0.0819   |
|   |          |          |          |        |           |          | 3-15   | 252    | 34.400 | 0.0946   |
|   |          |          |          |        |           |          |        | 512    | 38.545 | 0.1054   |
|   |          |          |          |        |           |          |        | 600    | 38.545 | 0.1093   |
|   |          |          |          |        |           |          |        | 732    | 42.433 | 0.1171   |
|   |          |          |          |        |           |          |        | 1050   | 38.545 | 0.1340   |
|   |          |          |          |        |           |          |        | 1256   | 46.575 | 0.1453   |
|   |          |          |          |        |           |          |        | 1532   | 57.737 | 0.1625   |
|   |          |          |          |        |           |          |        | 1618   | 58.444 | 0.1681   |
|   |          |          |          |        |           |          |        | 1636   | 62.807 | 0.1704   |
|   |          |          |          |        |           |          |        | 1810   | 59.875 | 0.1825   |
|   |          |          |          |        |           |          |        | 2400   | 41.297 | 0.2198   |
|   |          |          |          |        |           |          | 3-16   | 600    | 33.904 | 0.2483   |
|   |          |          |          |        |           |          |        | 1116   | 31.495 | 0.2701   |
|   |          |          |          |        |           |          |        | 1242   | 32.444 | 0.2759   |
|   |          |          |          |        |           |          |        | 1418   | 35.407 | 0.2828   |
|   |          |          |          |        |           |          |        | 1600   | 42.433 | 0.2911   |
|   |          |          |          |        |           |          |        | 1842   | 44.177 | 0.3059   |

NOTES: To convert CPS to IN/HR, multiply by .00012640.

| 1974                                     |          |          | REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084) |        |           |          |        |        |        |          |
|--|----------|----------|--|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS                    |          |          | RAINFALL                                       |        |           |          | RUNOFF |        |        |          |
| Date                                     | Rainfall | Rnoff    | Date   | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day                                   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF MARCH 14 - 20, 1974 (CONTINUED) |          |          |  |        |           |          |        |        |        |          |
|  |          |          |  |        |           |          | 3-16   | 1938   | 43.590 | 0.3111   |
|  |          |          |  |        |           |          |        | 2236   | 38.009 | 0.3264   |
|  |          |          |  |        |           |          |        | 2400   | 37.479 | 0.3331   |
|  |          |          |  |        |           |          | 3-17   | 118    | 40.736 | 0.3395   |
|  |          |          |  |        |           |          |        | 230    | 41.862 | 0.3458   |
|  |          |          |  |        |           |          |        | 438    | 41.297 | 0.3570   |
|  |          |          |  |        |           |          |        | 606    | 43.590 | 0.3648   |
|  |          |          |  |        |           |          |        | 702    | 47.806 | 0.3702   |
|  |          |          |  |        |           |          |        | 830    | 47.806 | 0.3791   |
|  |          |          |  |        |           |          |        | 1034   | 44.177 | 0.3911   |
|  |          |          |  |        |           |          |        | 1120   | 44.177 | 0.3954   |
|  |          |          |  |        |           |          |        | 1310   | 50.333 | 0.4063   |
|  |          |          |  |        |           |          |        | 1502   | 52.285 | 0.4184   |
|  |          |          |  |        |           |          |        | 1740   | 54.966 | 0.4363   |
|  |          |          |  |        |           |          |        | 2400   | 42.433 | 0.4753   |
|  |          |          |  |        |           |          | 3-18   | 624    | 34.400 | 0.5063   |
|  |          |          |  |        |           |          |        | 948    | 31.967 | 0.5206   |
|  |          |          |  |        |           |          |        | 1124   | 31.967 | 0.5271   |
|  |          |          |  |        |           |          |        | 1352   | 33.412 | 0.5373   |
|  |          |          |  |        |           |          |        | 1734   | 33.412 | 0.5529   |
|  |          |          |  |        |           |          |        | 2400   | 29.651 | 0.5785   |
|  |          |          |  |        |           |          | 3-19   | 914    | 24.957 | 0.6104   |
|  |          |          |  |        |           |          |        | 1152   | 24.556 | 0.6186   |
|  |          |          |  |        |           |          |        | 1802   | 25.770 | 0.6382   |
|  |          |          |  |        |           |          |        | 2108   | 24.160 | 0.6480   |
|  |          |          |  |        |           |          |        | 2400   | 22.618 | 0.6565   |
|  |          |          |  |        |           |          | 3-20   | 802    | 17.741 | 0.6770   |
|  |          |          |  |        |           |          |        | 838    | 17.741 | 0.6783   |
|  |          |          |  |        |           |          |        | 1020   | 21.144 | 0.6825   |
|  |          |          |  |        |           |          |        | 1100   | 21.144 | 0.6843   |
|  |          |          |  |        |           |          |        | 1158   | 21.506 | 0.6869   |
|  |          |          |  |        |           |          |        | 1506   | 23.381 | 0.6958   |
|  |          |          |  |        |           |          |        | 2034   | 20.431 | 0.7109   |
|  |          |          |  |        |           |          |        | 2400   | 18.720 | 0.7194   |

NOTES: To convert CFS to IN/HR, multiply by .00012640.





## REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee Connty, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 43 deg. 8 min. 33 sec. N.; Long. 116 deg. 45 min. 42 sec. W.

AHEA: 13453.00 acres 21.02 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jnn   | Jnl   | Aug   | Sep   | Oct   | Nov    | Dec   | Annual |       |
| 1974  | P | 3.52              | 1.83  | 6.12   | 1.34  | 0.53    | 0.87  | 0.95  | 0.22  | 0.0   | 2.63  | 1.72   | 4.06  | 23.79  |       |
|   | Q | 0.857             | 0.308 | 2.034  | 2.966 | 3.648   | 1.961 | 0.387                                       | 0.063 | 0.026 | 0.081 | 0.105  | 0.128 | 12.564 |       |
| STA AV  | P | 5.28              | 2.30  | 3.02   | 2.09  | 1.21    | 1.86  | 0.58  | 1.02  | 1.17  | 2.11  | 3.68   | 4.32  | 28.63  |       |
|   | Q | 0.884             | 0.553 | 1.298  | 1.894 | 3.465   | 1.578 | 0.259                                       | 0.048 | 0.037 | 0.086 | 0.162  | 0.233 | 10.498 |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF HUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval   |       |       |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-29              | 0.014 | 3-29   | 0.014 | 3-29    | 0.027 | 3-29  | 0.075 | 3-29  | 0.125 | 3-29   | 0.203 | 5- 7   | 0.370 |
|   |   |                   |       |        |       |         |       |   |       |       |       |        |       | 5- 4   | 1.296 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |        |       |        |       |
|   |   | 1-21              | 0.030 | 1-21   | 0.029 | 1-21    | 0.057 | 1-21  | 0.157 | 1-21  | 0.283 | 1-20   | 0.454 | 1-20   | 0.612 |
|   |   | 1969              |       | 1969   |       | 1969    |       | 1969  |       | 1969  |       | 1969   |       | 1969   |       |
|   |   |                   |       |        |       |         |       |   |       |       |       |        |       | 5- 4   | 1.856 |
|   |   |                   |       |        |       |         |       |   |       |       |       |        |       | 1971   |       |

NOTES: Watershed conditions - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominantly of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Records began: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. Station average precipitation amounts are based on 1968-74 record period. Station average runoff amounts are based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

| SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES) |        |        |        |        |        |        |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Course#  | Date   | Inches | Date   | Inches | Date   | Inches | Date   | Inches | Date   | Inches | Date   | Inches |
| 144062   | 011674 | 10.20  | 020174 | 12.50  | 021574 | 13.60  | 030174 | 15.60  | 031474 | 20.60  | 040274 | 17.70  |
| 144062   | 041574 | 15.50  | 050174 | 1.30   | 051574 | 0.00   | 120374 | 0.72   | 121774 | 4.50   |        |        |
| 155054   | 011574 | 9.10   | 020174 | 10.50  | 021574 | 10.70  | 030174 | 12.60  | 031474 | 15.60  | 040274 | 13.00  |
| 155054   | 041574 | 8.60   | 042374 | 0.00   | 120374 | 0.70   | 121774 | 2.80   |        |        |        |        |
| 163020   | 011674 | 19.70  | 020174 | 22.40  | 021574 | 23.80  | 030174 | 27.10  | 031474 | 32.20  | 040274 | 34.20  |
| 163020   | 041574 | 35.40  | 050174 | 34.30  | 051574 | 27.80  | 052974 | 18.50  | 060874 | 0.00   | 120374 | 4.80   |
| 163020   | 121774 | 8.90   |        |        |        |        |        |        |        |        |        |        |
| 163098   | 011674 | 18.20  | 020174 | 21.90  | 021574 | 23.40  | 030174 | 25.60  | 031474 | 30.50  | 040274 | 32.70  |
| 163098   | 041574 | 33.60  | 050174 | 29.00  | 051474 | 17.50  | 052974 | 7.90   | 061174 | 0.00   | 120374 | 3.80   |
| 163098   | 121774 | 7.80   |        |        |        |        |        |        |        |        |        |        |
| 167007   | 011574 | 8.90   | 020174 | 8.80   | 021574 | 8.80   | 030174 | 10.20  | 031474 | 12.20  | 040174 | 11.80  |
| 167007   | 041574 | 11.10  | 042274 | 7.70   | 042974 | 4.20   | 051574 | 0.00   | 120374 | 1.60   | 121774 | 2.80   |
| 174026   | 011674 | 19.10  | 020174 | 21.40  | 021574 | 23.10  | 030174 | 26.60  | 031474 | 31.30  | 040274 | 33.40  |
| 174026   | 041574 | 34.80  | 050174 | 28.70  | 051574 | 17.90  | 052974 | 3.30   | 060474 | 0.00   | 120374 | 2.40   |
| 174026   | 121774 | 9.10   |        |        |        |        |        |        |        |        |        |        |
| 176007   | 011674 | 17.60  | 020174 | 21.40  | 021574 | 21.80  | 030174 | 25.00  | 03174  | 29.80  | 040274 | 30.50  |

NOTES: For snow course location information, see map on p. 68.001-6 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |       |       |       |       |       |       |       |       |      |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep  | Oct   | Nov   | Dec   |
| 1   | 0.02  | 0.06  | 0.89  | 0.64  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.09  | 0.0   |
| 2   | 0.0 T | 0.0 T | 0.48  | 0.08  | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.12  | 0.0   |
| 3   | 0.0 T | 0.0   | 0.01  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.0   |
| 4   | 0.0   | 0.20  | 0.27  | 0.0 T | 0.0   | 0.25  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.03  |
| 5   | 0.05  | 0.0   | 0.15  | 0.23  | 0.0   | 0.61  | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.0   |
| 6   | 0.06  | 0.0   | 0.95  | 0.01  | 0.0   | 0.0   | 0.10  | 0.21  | 0.0  | 0.0   | 0.0 T | 0.05  |
| 7   | 0.0 T | 0.0   | 0.50  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0  | 0.0   | 0.47  | 0.0   |
| 8   | 0.0   | 0.0   | 0.06  | 0.0   | 0.0   | 0.0   | 0.22  | 0.0   | 0.0  | 0.07  | 0.03  | 0.0   |
| 9   | 0.0   | 0.0   | 0.0   | 0.07  | 0.0 T | 0.0   | 0.52  | 0.0   | 0.0  | 0.60  | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0 T | 0.02  | 0.0   | 0.0   | 0.11  | 0.0   | 0.0  | 0.0 T | 0.0 T | 0.0 T |
| 11  | 0.01  | 0.0   | 0.08  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.48  |
| 12  | 0.38  | 0.0   | 0.08  | 0.0 T | 0.21  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.39  |
| 13  | 0.33  | 0.0   | 0.13  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0  | 0.0   | 0.0   | 0.03  |
| 14  | 0.0 T | 0.03  | 0.58  | 0.0   | 0.01  | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.54  |
| 15  | 0.0   | 0.0 T | 0.04  | 0.0 T | 0.08  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.20  |
| 16  | 0.22  | 0.33  | 0.01  | 0.0   | 0.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.02  |
| 17  | 0.02  | 0.01  | 0.15  | 0.0   | 0.06  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.05  | 0.21  |
| 18  | 0.58  | 0.38  | 0.0 T | 0.07  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0  | 0.0   | 0.59  | 0.01  |
| 19  | 0.11  | 0.47  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.01  | 0.0  | 0.0   | 0.03  | 0.17  |
| 20  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0  | 0.03  | 0.0 T | 0.84  |
| 21  | 0.01  | 0.16  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.14  | 0.0 T | 0.20  |
| 22  | 0.02  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0  | 0.0 T | 0.01  | 0.03  |
| 23  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0  | 0.47  | 0.0 T | 0.0 T |
| 24  | 0.0   | 0.0   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.12  | 0.01  | 0.0 T |
| 25  | 0.12  | 0.0   | 0.17  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.13  | 0.04  |
| 26  | 0.27  | 0.13  | 0.06  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.01  |
| 27  | 0.53  | 0.0 T | 0.15  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.19  | 0.60  |
| 28  | 0.01  | 0.01  | 0.09  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.73  | 0.0 T | 0.0 T |
| 29  | 0.0   |       | 1.07  | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.0  | 0.47  | 0.0   | 0.02  |
| 30  | 0.0   |       | 0.18  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0 T | 0.19  |
| 31  | 0.72  |       | 0.02  |       | 0.0   |       | 0.0   | 0.0   |      | 0.0   |       | 0.0   |
| TOTAL   | 3.52  | 1.83  | 6.12  | 1.34  | 0.53  | 0.87  | 0.95  | 0.22  | 0.0  | 2.63  | 1.72  | 4.06  |
| STA AV  | 5.28  | 2.30  | 3.02  | 2.09  | 1.21  | 1.86  | 0.58  | 1.02  | 1.17 | 2.11  | 3.68  | 4.32  |

NOTES: Values are Thiessen weighted average 'Actual' amounts from 16 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamou, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |       |       |       |       |       |       |       |       |     |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep | Oct   | Nov   | Dec   |
| 1   | 0.02  | 0.03  | 0.51  | 0.36  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.06  | 0.0   |
| 2   | 0.0 T | 0.0   | 0.25  | 0.05  | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.08  | 0.0   |
| 3   | 0.0 T | 0.0   | 0.01  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0   |
| 4   | 0.0   | 0.12  | 0.12  | 0.0 T | 0.0   | 0.24  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.03  |
| 5   | 0.04  | 0.0   | 0.07  | 0.16  | 0.0   | 0.58  | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0   |
| 6   | 0.04  | 0.0   | 0.56  | 0.0 T | 0.0   | 0.0   | 0.10  | 0.20  | 0.0 | 0.0   | 0.0 T | 0.04  |
| 7   | 0.0 T | 0.0   | 0.29  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0 | 0.0   | 0.41  | 0.0   |
| 8   | 0.0   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.21  | 0.0   | 0.0 | 0.07  | 0.02  | 0.0   |
| 9   | 0.0   | 0.0   | 0.0   | 0.05  | 0.0 T | 0.0   | 0.49  | 0.0   | 0.0 | 0.57  | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0 T | 0.01  | 0.0   | 0.0   | 0.11  | 0.0   | 0.0 | 0.0 T | 0.0 T | 0.0 T |
| 11  | 0.0 T | 0.0   | 0.04  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.26  |
| 12  | 0.20  | 0.0   | 0.05  | 0.0 T | 0.14  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.21  |
| 13  | 0.17  | 0.0   | 0.09  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.01  |
| 14  | 0.0 T | 0.01  | 0.41  | 0.0   | 0.01  | 0.0 T | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.25  |
| 15  | 0.0   | 0.0 T | 0.03  | 0.0 T | 0.06  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.09  |
| 16  | 0.20  | 0.14  | 0.01  | 0.0   | 0.12  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 T |
| 17  | 0.02  | 0.01  | 0.10  | 0.0   | 0.04  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.04  | 0.13  |
| 18  | 0.53  | 0.16  | 0.0 T | 0.07  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 | 0.0   | 0.46  | 0.01  |
| 19  | 0.09  | 0.21  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.01  | 0.0 | 0.0   | 0.01  | 0.12  |
| 20  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0 | 0.03  | 0.0 T | 0.65  |
| 21  | 0.01  | 0.09  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.10  | 0.0 T | 0.12  |
| 22  | 0.01  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 | 0.0 T | 0.01  | 0.02  |
| 23  | 0.0 T | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.35  | 0.0 T | 0.0 T |
| 24  | 0.0   | 0.0   | 0.0   | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.09  | 0.01  | 0.0   |
| 25  | 0.05  | 0.0   | 0.14  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.10  | 0.01  |
| 26  | 0.12  | 0.08  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.01  |
| 27  | 0.23  | 0.0 T | 0.12  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.12  | 0.28  |
| 28  | 0.0 T | 0.0 T | 0.08  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.64  | 0.0 T | 0.0 T |
| 29  | 0.0   |       | 0.85  | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.0 | 0.41  | 0.0   | 0.01  |
| 30  | 0.0   |       | 0.12  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 T | 0.07  |
| 31  | 0.40  |       | 0.01  |       | 0.0   |       | 0.0   | 0.0   |     | 0.0   |       | 0.0   |
| TOTAL   | 2.17  | 0.88  | 3.93  | 0.85  | 0.38  | 0.83  | 0.91  | 0.21  | 0.0 | 2.26  | 1.32  | 2.32  |
| STA AV  |       |       |       |       |       |       |       |       |     |       |       |       |

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |       |       |       |       |       |       |       |       |     |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr   | May   | Jnn   | Jnl   | Aug   | Sep | Oct   | Nov   | Dec   |
| 1   | 0.02  | 0.05  | 0.69  | 0.49  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.07  | 0.0   |
| 2   | 0.0 T | 0.0 T | 0.36  | 0.07  | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.10  | 0.0   |
| 3   | 0.0 T | 0.0   | 0.01  | 0.03  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0   |
| 4   | 0.0   | 0.16  | 0.19  | 0.0 T | 0.0   | 0.24  | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.03  |
| 5   | 0.05  | 0.0   | 0.11  | 0.20  | 0.0   | 0.60  | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.0   |
| 6   | 0.05  | 0.0   | 0.75  | 0.01  | 0.0   | 0.0   | 0.10  | 0.20  | 0.0 | 0.0   | 0.0 T | 0.05  |
| 7   | 0.0 T | 0.0   | 0.40  | 0.0 T | 0.0   | 0.0 T | 0.0   | 0.0 T | 0.0 | 0.0   | 0.44  | 0.0   |
| 8   | 0.0   | 0.0   | 0.05  | 0.0   | 0.0   | 0.0   | 0.21  | 0.0   | 0.0 | 0.07  | 0.03  | 0.0   |
| 9   | 0.0   | 0.0   | 0.0   | 0.06  | 0.0 T | 0.0   | 0.51  | 0.0   | 0.0 | 0.59  | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0 T | 0.02  | 0.0   | 0.0   | 0.11  | 0.0   | 0.0 | 0.0 T | 0.0 T | 0.0 T |
| 11  | 0.01  | 0.0   | 0.07  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.36  |
| 12  | 0.28  | 0.0   | 0.07  | 0.0 T | 0.17  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.30  |
| 13  | 0.25  | 0.0   | 0.11  | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 T | 0.0 | 0.0   | 0.0   | 0.02  |
| 14  | 0.0 T | 0.02  | 0.50  | 0.0   | 0.01  | 0.0 T | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.38  |
| 15  | 0.0   | 0.0 T | 0.04  | 0.0 T | 0.07  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.14  |
| 16  | 0.21  | 0.23  | 0.01  | 0.0   | 0.14  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.01  |
| 17  | 0.02  | 0.01  | 0.13  | 0.0   | 0.05  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.05  | 0.17  |
| 18  | 0.56  | 0.26  | 0.0 T | 0.07  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0 | 0.0   | 0.53  | 0.01  |
| 19  | 0.10  | 0.33  | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.01  | 0.0 | 0.0   | 0.02  | 0.15  |
| 20  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.01  | 0.0   | 0.0   | 0.0 | 0.03  | 0.0 T | 0.75  |
| 21  | 0.01  | 0.12  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.12  | 0.0 T | 0.16  |
| 22  | 0.02  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0   | 0.0   | 0.0 | 0.0 T | 0.01  | 0.03  |
| 23  | 0.01  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 T | 0.0 | 0.42  | 0.0 T | 0.0 T |
| 24  | 0.0   | 0.0   | 0.0   | 0.03  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.11  | 0.01  | 0.0 T |
| 25  | 0.09  | 0.0   | 0.16  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.11  | 0.02  |
| 26  | 0.19  | 0.10  | 0.05  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.01  |
| 27  | 0.37  | 0.0 T | 0.13  | 0.04  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.16  | 0.42  |
| 28  | 0.0 T | 0.0 T | 0.09  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.69  | 0.0 T | 0.0 T |
| 29  | 0.0   | 0.0   | 0.96  | 0.0   | 0.01  | 0.0   | 0.0   | 0.0   | 0.0 | 0.45  | 0.0   | 0.01  |
| 30  | 0.0   | 0.0   | 0.15  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 T | 0.12  |
| 31  | 0.56  | 0.02  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0 | 0.0   | 0.0   | 0.0   |
| TOTAL   | 2.85  | 1.32  | 5.05  | 1.10  | 0.45  | 0.85  | 0.93  | 0.21  | 0.0 | 2.48  | 1.53  | 3.14  |
| STA AV  |       |       |       |       |       |       |       |       |     |       |       |       |

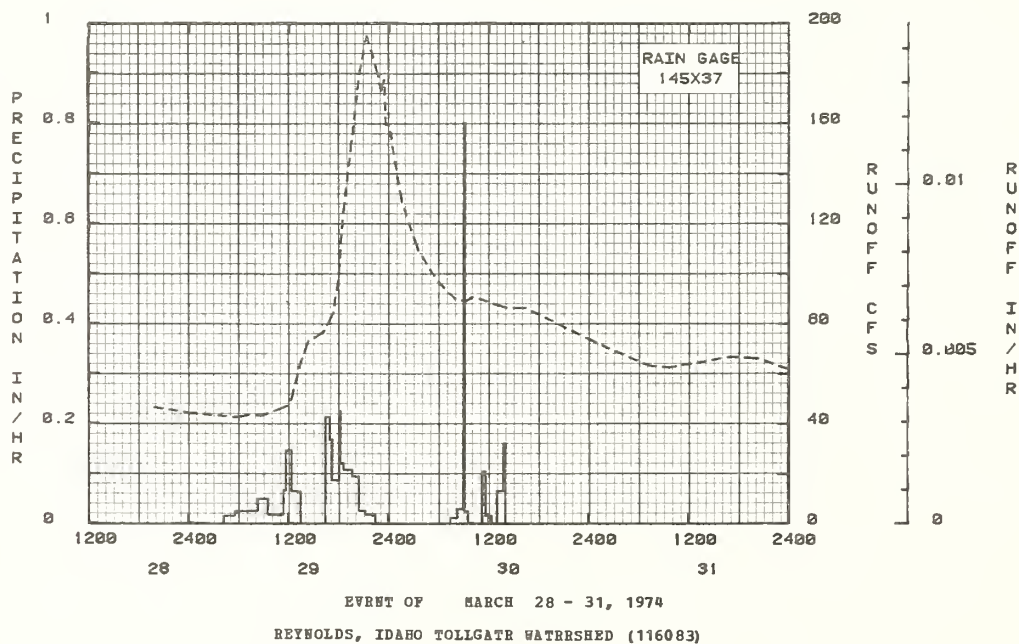
NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

| 1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |        |       |        |        |        |        |       |       |       |       |       |       |
|---|--------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Day   | Jan    | Feb   | Mar    | Apr    | May    | Jnn    | Jnl   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1   | 4.18   | 8.59  | 10.91  | 61.78  | 79.70  | 56.58  | 10.80 | 2.26  | 0.45  | 0.56  | 1.92  | 1.75  |
| 2   | 3.28   | 8.20  | 10.46  | 53.30  | 80.09  | 56.07  | 10.85 | 2.26  | 0.45  | 0.51  | 2.09  | 1.98  |
| 3   | 2.77   | 7.74  | 7.86   | 47.02  | 79.58  | 56.24  | 13.06 | 1.98  | 0.40  | 0.62  | 1.92  | 1.92  |
| 4   | 2.54   | 7.40  | 7.80   | 44.37  | 82.35  | 58.61  | 12.77 | 1.69  | 0.40  | 0.74  | 1.81  | 2.09  |
| 5   | 2.66   | 7.01  | 8.87   | 48.49  | 87.72  | 72.18  | 10.74 | 1.58  | 0.40  | 0.85  | 1.75  | 2.03  |
| 6   | 2.88   | 6.27  | 9.66   | 46.74  | 90.55  | 60.82  | 10.68 | 1.70  | 0.45  | 0.90  | 1.70  | 1.92  |
| 7   | 3.16   | 7.01  | 8.82   | 43.58  | 99.14  | 54.66  | 10.34 | 1.58  | 0.40  | 0.96  | 1.98  | 1.92  |
| 8   | 3.39   | 6.78  | 8.48   | 45.50  | 105.64 | 49.00  | 9.61  | 1.64  | 0.34  | 1.07  | 2.71  | 1.41  |
| 9   | 3.73   | 6.33  | 8.82   | 44.54  | 100.33 | 45.61  | 12.27 | 1.53  | 0.34  | 1.98  | 1.98  | 1.75  |
| 10  | 4.52   | 6.33  | 9.55   | 39.96  | 88.23  | 43.58  | 12.04 | 1.41  | 0.45  | 1.47  | 1.98  | 1.86  |
| 11  | 3.22   | 6.44  | 11.42  | 40.70  | 83.60  | 42.16  | 9.33  | 1.24  | 0.62  | 1.36  | 1.87  | 2.09  |
| 12  | 4.07   | 6.05  | 20.12  | 38.66  | 79.41  | 42.05  | 8.53  | 1.19  | 0.68  | 1.30  | 1.98  | 2.15  |
| 13  | 6.05   | 5.88  | 18.26  | 36.23  | 68.22  | 41.60  | 7.91  | 1.13  | 0.79  | 1.24  | 1.92  | 2.20  |
| 14  | 26.34  | 5.71  | 27.30  | 40.07  | 60.20  | 40.53  | 7.69  | 1.30  | 0.68  | 1.24  | 1.92  | 2.15  |
| 15  | 66.07  | 5.77  | 60.08  | 44.43  | 55.16  | 38.94  | 7.01  | 1.19  | 0.62  | 1.24  | 1.86  | 2.20  |
| 16  | 50.25  | 5.99  | 71.10  | 50.87  | 50.47  | 37.59  | 6.27  | 1.02  | 0.51  | 1.24  | 1.64  | 2.49  |
| 17  | 42.11  | 5.65  | 96.88  | 61.10  | 44.88  | 34.93  | 6.05  | 0.85  | 0.45  | 1.19  | 1.70  | 2.26  |
| 18  | 46.46  | 5.65  | 71.05  | 71.39  | 40.13  | 32.56  | 5.71  | 0.74  | 0.40  | 1.19  | 3.22  | 2.15  |
| 19  | 46.80  | 6.22  | 55.84  | 72.40  | 36.74  | 30.18  | 4.97  | 0.90  | 0.40  | 1.24  | 2.32  | 2.20  |
| 20  | 27.13  | 5.48  | 45.16  | 66.24  | 35.21  | 29.67  | 4.69  | 1.07  | 0.40  | 1.24  | 2.15  | 5.09  |
| 21  | 19.33  | 5.71  | 39.85  | 68.73  | 34.25  | 27.64  | 4.41  | 1.07  | 0.45  | 1.41  | 2.15  | 4.75  |
| 22  | 17.52  | 5.31  | 36.29  | 73.70  | 36.29  | 25.32  | 4.41  | 0.90  | 0.45  | 1.41  | 2.03  | 2.88  |
| 23  | 13.96  | 5.37  | 33.57  | 77.60  | 42.16  | 22.95  | 4.01  | 0.90  | 0.45  | 1.58  | 1.75  | 2.54  |
| 24  | 12.83  | 5.65  | 37.25  | 75.85  | 48.95  | 29.40  | 3.73  | 0.74  | 0.45  | 2.03  | 1.98  | 2.60  |
| 25  | 11.76  | 5.94  | 40.75  | 71.90  | 56.24  | 17.92  | 3.50  | 0.74  | 0.45  | 1.92  | 2.03  | 2.60  |
| 26  | 10.57  | 5.09  | 48.72  | 64.21  | 67.37  | 16.84  | 3.28  | 0.62  | 0.40  | 1.86  | 1.53  | 2.32  |
| 27  | 10.17  | 5.09  | 52.73  | 59.12  | 74.89  | 15.37  | 3.11  | 0.56  | 0.45  | 1.75  | 2.15  | 2.43  |
| 28  | 9.50   | 5.20  | 51.26  | 56.46  | 71.61  | 14.07  | 2.94  | 0.45  | 0.56  | 2.32  | 1.81  | 2.15  |
| 29  | 9.10   | 81.22 | 60.82  | 64.15  | 12.83  | 2.83   | 2.83  | 0.45  | 0.56  | 4.86  | 1.53  | 2.32  |
| 30  | 8.76   | 93.54 | 70.65  | 60.54  | 11.70  | 2.83   | 2.83  | 0.45  | 0.62  | 2.54  | 1.86  | 2.32  |
| 31  | 9.33   | 65.79 |        | 57.93  |        | 2.60   | 2.60  | 0.45  |       | 2.03  |       | 2.09  |
| MEAN  | 15.627 | 6.209 | 37.078 | 55.881 | 66.507 | 36.954 | 7.063 | 1.149 | 0.482 | 1.481 | 1.974 | 2.343 |
| INCHES  | 0.857  | 0.308 | 2.034  | 2.966  | 3.648  | 1.961  | 0.387 | 0.063 | 0.026 | 0.081 | 0.105 | 0.128 |
| STA AV  | 0.884  | 0.553 | 1.298  | 1.894  | 3.465  | 1.578  | 0.259 | 0.048 | 0.037 | 0.086 | 0.162 | 0.233 |

NOTES: To convert CFS to IN/DAY, multiply by 0.001769. STA AV amounts based on 8 yr (1967-74) record period.

| 1974 SELECTED RUNOFF EVENT   |                      |                    | REYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS  |                      |                    | RAINFALL                                    |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day   | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                              | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MARCH 28 - 31, 1974   |                      |                    |   |                |                      |                  |                |                |               |                  |
| RG 145X37  |                      |                    | RG 145X37                                   |                |                      |                  |                |                |               |                  |
| 3-29   | 0.09                 |                    | 3-29  | 418            | 0.0                  | 0.0              | 3-28           | 1956           | 46.431        | 0.0              |
| 3-28   |                      | 0.077              |   | 536            | 0.0154               | 0.02             |                | 2400           | 44.148        | 0.0136           |
|  |                      |                    |   | 712            | 0.0250               | 0.06             | 3-29           | 536            | 42.486        | 0.0315           |
|  |                      |                    |   | 823            | 0.0254               | 0.09             |                | 716            | 43.589        | 0.0368           |
|  |                      |                    |   | 935            | 0.0500               | 0.15             |                | 838            | 43.035        | 0.0411           |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt. |                      |                    |   | 1124           | 0.0165               | 0.18             |                | 1146           | 47.014        | 0.0515           |
|  |                      |                    |   | 1142           | 0.0667               | 0.20             |                | 1226           | 50.614        | 0.0539           |
|  |                      |                    |   | 1223           | 0.1463               | 0.30             |                | 1322           | 63.215        | 0.0578           |
|  |                      |                    |   | 1329           | 0.0636               | 0.37             |                | 1422           | 72.944        | 0.0628           |
|  |                      |                    |   | 1627           | 0.0                  | 0.37             |                | 1618           | 76.936        | 0.0735           |
|  |                      |                    |   | 1658           | 0.2129               | 0.48             |                | 1722           | 84.485        | 0.0799           |
|  |                      |                    |   | 1716           | 0.1667               | 0.53             |                | 1758           | 97.184        | 0.0839           |
|  |                      |                    |   | 1805           | 0.0857               | 0.60             |                | 1834           | 125.146       | 0.0888           |
|  |                      |                    |   | 1813           | 0.2250               | 0.63             |                | 1932           | 152.821       | 0.0987           |
|  |                      |                    |   | 1838           | 0.1200               | 0.68             |                | 2026           | 179.970       | 0.1097           |
|  |                      |                    |   | 1940           | 0.1065               | 0.79             |                | 2118           | 194.675       | 0.1217           |
|  |                      |                    |   | 2025           | 0.0933               | 0.86             |                | 2244           | 178.542       | 0.1414           |
|  |                      |                    |   | 2114           | 0.0245               | 0.88             |                | 2300           | 172.905       | 0.1449           |
|  |                      |                    |   | 2227           | 0.0164               | 0.90             |                | 2324           | 177.122       | 0.1501           |
|  |                      |                    | 3-30  | 726            | 0.0                  | 0.90             |                | 2338           | 159.332       | 0.1529           |
|  |                      |                    |   | 819            | 0.0113               | 0.91             |                | 2400           | 159.332       | 0.1573           |
|  |                      |                    |   | 900            | 0.0293               | 0.93             | 3-30           | 132            | 128.549       | 0.1735           |
|  |                      |                    |   | 909            | 0.8000               | 1.05             |                | 334            | 109.031       | 0.1913           |
|  |                      |                    |   | 934            | 0.0240               | 1.06             |                | 600            | 96.237        | 0.2097           |
|  |                      |                    |   | 1117           | 0.0                  | 1.06             |                | 758            | 89.782        | 0.2232           |
|  |                      |                    |   | 1140           | 0.1043               | 1.10             |                | 910            | 88.885        | 0.2311           |
|  |                      |                    |   | 1222           | 0.0143               | 1.11             |                | 1004           | 90.686        | 0.2371           |
|  |                      |                    |   | 1304           | 0.0                  | 1.11             |                | 1408           | 86.227        | 0.2636           |
|  |                      |                    |   | 1350           | 0.0652               | 1.16             |                | 1624           | 86.227        | 0.2780           |
|  |                      |                    |   | 1405           | 0.1600               | 1.20             |                | 2400           | 73.731        | 0.3228           |
|  |                      |                    |   |                |                      |                  | 3-31           | 714            | 63.215        | 0.3593           |

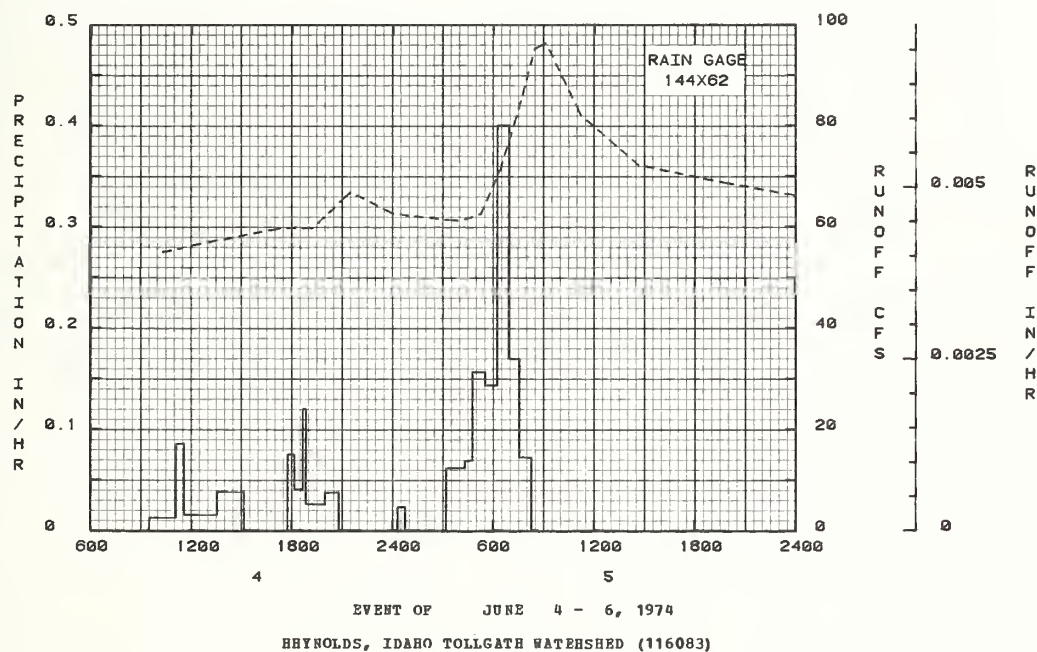
NOTES: To convert CFS to IN/HR, multiply by 0.00007372.





| 1974 SELECTED RUNOFF EVENT  |          |          | RHYNOLDS, IDAHO TOLLGATE WATERSHED (116083) |        |           |          |        |        |        |          |
|---|----------|----------|---|--------|-----------|----------|--------|--------|--------|----------|
| ANTHRODENT CONDITIONS   |          |          | RAINFALL                                    |        |           |          | RUNOFF |        |        |          |
| Date  | Rainfall | Runoff   | Date  | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day                                      | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF JUNE 4 - 6, 1974   |          |          |   |        |           |          |        |        |        |          |
| HG 144X62   |          |          | HG 144X62                                   |        |           |          |        |        |        |          |
| 6- 4  | 0.0      | 0.043    | 6- 4  | 929    | 0.0       | 0.0      | 6- 4   | 1018   | 55.040 | 0.0      |
|   |          |          |   | 1105   | 0.0125    | 0.02     |        | 1304   | 57.013 | 0.0114   |
|   |          |          |   | 1133   | 0.0857    | 0.06     |        | 1716   | 59.717 | 0.0295   |
|   |          |          |   | 1333   | 0.0150    | 0.09     |        | 1912   | 59.717 | 0.0380   |
|   |          |          |   | 1507   | 0.0383    | 0.15     |        | 2126   | 66.848 | 0.0484   |
| WATERSHED CONDITIONS:<br>The event is combined<br>rain and snowmelt at the<br>upper elevations. |          |          |   | 1745   | 0.0       | 0.15     |        | 2400   | 62.505 | 0.0606   |
|   |          |          |   | 1809   | 0.0750    | 0.18     | 6- 5   | 352    | 61.101 | 0.0782   |
|   |          |          |   | 1839   | 0.0400    | 0.20     |        | 514    | 62.505 | 0.0845   |
|   |          |          |   | 1849   | 0.1200    | 0.22     |        | 624    | 71.387 | 0.0902   |
|   |          |          |   | 1959   | 0.0257    | 0.25     |        | 722    | 81.917 | 0.0957   |
|   |          |          | 6- 5  | 2047   | 0.0375    | 0.28     |        | 828    | 95.297 | 0.1029   |
|   |          |          |   | 19     | 0.0       | 0.28     |        | 906    | 96.237 | 0.1073   |
|   |          |          |   | 45     | 0.0231    | 0.29     |        | 1112   | 81.917 | 0.1211   |
|   |          |          |   | 311    | 0.0       | 0.29     |        | 1438   | 72.163 | 0.1406   |
|   |          |          |   | 419    | 0.0618    | 0.36     |        | 2016   | 68.339 | 0.1698   |
|   |          |          |   | 445    | 0.0692    | 0.39     |        | 2400   | 66.110 | 0.1883   |
|   |          |          |   | 531    | 0.1565    | 0.51     | 6- 6   | 916    | 61.101 | 0.2318   |
|   |          |          |   | 613    | 0.1429    | 0.61     |        |        |        |          |
|   |          |          |   | 655    | 0.4000    | 0.89     |        |        |        |          |
|   |          |          |   | 734    | 0.1692    | 1.00     |        |        |        |          |
|   |          |          |   | 816    | 0.0714    | 1.05     |        |        |        |          |
|   |          |          |   | 840    | 0.0       | 1.05     |        |        |        |          |

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



## REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 49 min. 1 sec. W.

AREA: 306.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |       |       | REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004) |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|-----------------------------|------------------|-------------------|-------------------|--------------------|-----------------|------------------|------------------|-------|-------|-------|-------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   |   | Jan                         | Feb              | Mar               | Apr               | May                | Jun             | Jul              | Aug              | Sep   | Oct   | Nov   | Dec   | Annual  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1974  | P | 2.01                        | 0.92             | 4.06              | 0.97              | 0.44               | 1.02            | 0.55             | 0.28             | 0.0   | 2.23  | 1.22  | 3.13  | 16.83   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 1.418                       | 0.596            | 3.346             | 2.257             | 0.903              | 0.208           | 0.035            | 0.0              | 0.0   | 0.006 | 0.089 | 0.178 | 9.038   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV  | P | 3.36                        | 1.37             | 2.32              | 1.92              | 1.01               | 2.34            | 0.31             | 0.62             | 1.20  | 1.70  | 2.69  | 2.81  | 21.66   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Q | 1.681                       | 0.818            | 1.790             | 1.731             | 0.872              | 0.287           | 0.053            | 0.003            | 0.003 | 0.032 | 0.140 | 0.392 | 7.802   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | Maximum Discharge Date Rate | 1 Hour Date Vol. | 2 Hours Date Vol. | 6 Hours Date Vol. | 12 Hours Date Vol. | 1 Day Date Vol. | 2 Days Date Vol. | 8 Days Date Vol. |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1974  |   | 3-14 0.016                  | 3-14 0.016       | 3-14 0.030        | 3-14 0.078        | 3-14 0.128         | 3-14 0.228      | 3-14 0.424       | 3-12 1.384       |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                             |                  |                   |                   |                    |                 |                  |                  |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | 1-27 0.060                  | 1-21 0.050       | 1-20 0.096        | 1-20 0.261        | 1-20 0.445         | 1-20 0.720      | 1-20 1.050       | 3-1 1.931        |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | 1970                        | 1969             | 1969              | 1969              | 1969               | 1969            | 1969             | 1972             |       |       |       |       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Billows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. Station average precipitation amounts based on 1968-74 record period. Station average runoff amounts based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles E.E. of watershed.

| 1974   |       | DAILY PRECIPITATION (inches) |      |      |      |      | REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004) |      |      |      |       |      |  |  |
|--------|-------|------------------------------|------|------|------|------|---|------|------|------|-------|------|--|--|
| Day    | Jan   | Feb                          | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct  | Nov   | Dec  |  |  |
| 1      | 0.0 T | 0.04                         | 0.76 | 0.45 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.01  | 0.0  |  |  |
| 2      | 0.0   | 0.0                          | 0.16 | 0.11 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0 T | 0.0  |  |  |
| 3      | 0.0   | 0.0                          | 0.02 | 0.04 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |  |  |
| 4      | 0.0   | 0.15                         | 0.13 | 0.0  | 0.0  | 0.27 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.23 |  |  |
| 5      | 0.04  | 0.0                          | 0.05 | 0.12 | 0.0  | 0.75 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 |  |  |
| 6      | 0.0   | 0.0                          | 0.62 | 0.0  | 0.0  | 0.0  | 0.03  | 0.23 | 0.0  | 0.0  | 0.0   | 0.16 |  |  |
| 7      | 0.02  | 0.0                          | 0.47 | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 | 0.0  | 0.0  | 0.60  | 0.0  |  |  |
| 8      | 0.0   | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.17  | 0.0  | 0.0  | 0.01 | 0.02  | 0.0  |  |  |
| 9      | 0.0   | 0.0                          | 0.0  | 0.07 | 0.0  | 0.0  | 0.24  | 0.0  | 0.0  | 0.56 | 0.0   | 0.0  |  |  |
| 10     | 0.0   | 0.0                          | 0.0  | 0.03 | 0.0  | 0.0  | 0.09  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |  |  |
| 11     | 0.0 T | 0.0                          | 0.0  | 0.12 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.27 |  |  |
| 12     | 0.12  | 0.0                          | 0.22 | 0.01 | 0.26 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.36 |  |  |
| 13     | 0.09  | 0.0                          | 0.09 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 |  |  |
| 14     | 0.0   | 0.02                         | 0.45 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.39 |  |  |
| 15     | 0.0   | 0.0                          | 0.05 | 0.0  | 0.04 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.29 |  |  |
| 16     | 0.28  | 0.12                         | 0.01 | 0.0  | 0.10 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |  |  |
| 17     | 0.0   | 0.0                          | 0.12 | 0.0  | 0.02 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.12  | 0.14 |  |  |
| 18     | 0.24  | 0.20                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.28  | 0.0  |  |  |
| 19     | 0.0   | 0.28                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.01  | 0.03 | 0.0  | 0.0  | 0.01  | 0.18 |  |  |
| 20     | 0.12  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 | 0.0  | 0.04 | 0.0   | 0.55 |  |  |
| 21     | 0.0   | 0.03                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.14 | 0.0   | 0.03 |  |  |
| 22     | 0.0   | 0.05                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 |  |  |
| 23     | 0.0   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.43 | 0.0   | 0.0  |  |  |
| 24     | 0.0   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.17 | 0.0   | 0.0  |  |  |
| 25     | 0.09  | 0.0                          | 0.30 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.06  | 0.0  |  |  |
| 26     | 0.14  | 0.03                         | 0.16 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |  |  |
| 27     | 0.54  | 0.0                          | 0.09 | 0.01 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.12  | 0.32 |  |  |
| 28     | 0.0   | 0.0 T                        | 0.01 | 0.01 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.47 | 0.0   | 0.0  |  |  |
| 29     | 0.0   | 0.24                         | 0.0  | 0.0  | 0.02 | 0.0  | 0.01  | 0.0  | 0.0  | 0.41 | 0.0   | 0.02 |  |  |
| 30     | 0.0   | 0.08                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.16 |  |  |
| 31     | 0.33  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 T   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |  |  |
| TOTAL  | 2.01  | 0.92                         | 4.06 | 0.97 | 0.44 | 1.02 | 0.55  | 0.28 | 0.0  | 2.23 | 1.22  | 3.13 |  |  |
| STA AV | 3.36  | 1.37                         | 2.32 | 1.92 | 1.01 | 2.34 | 0.31  | 0.62 | 1.20 | 1.70 | 2.69  | 2.81 |  |  |

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDRS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004) |       |       |      |       |      |      |      |      |     |      |       |      |
|---|-------|-------|------|-------|------|------|------|------|-----|------|-------|------|
| Day   | Jan   | Feb   | Mar  | Apr   | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov   | Dec  |
| 1   | 0.0 T | 0.02  | 0.55 | 0.21  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.01  | 0.0  |
| 2   | 0.0   | 0.0   | 0.12 | 0.05  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0 T | 0.0  |
| 3   | 0.0   | 0.0   | 0.01 | 0.02  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| 4   | 0.0   | 0.09  | 0.06 | 0.0   | 0.0  | 0.24 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.14 |
| 5   | 0.04  | 0.0   | 0.02 | 0.07  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.01 |
| 6   | 0.0   | 0.0   | 0.27 | 0.0   | 0.0  | 0.0  | 0.02 | 0.15 | 0.0 | 0.0  | 0.0   | 0.13 |
| 7   | 0.02  | 0.0   | 0.22 | 0.0   | 0.0  | 0.0  | 0.0  | 0.01 | 0.0 | 0.0  | 0.58  | 0.0  |
| 8   | 0.0   | 0.0   | 0.01 | 0.0   | 0.0  | 0.0  | 0.12 | 0.0  | 0.0 | 0.01 | 0.02  | 0.0  |
| 9   | 0.0   | 0.0   | 0.0  | 0.03  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0 | 0.52 | 0.0   | 0.0  |
| 10  | 0.0   | 0.0   | 0.0  | 0.01  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| 11  | 0.0 T | 0.0   | 0.0  | 0.07  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.19 |
| 12  | 0.11  | 0.0   | 0.11 | 0.0 T | 0.17 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.25 |
| 13  | 0.08  | 0.0   | 0.04 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| 14  | 0.0   | 0.02  | 0.37 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.15 |
| 15  | 0.0   | 0.0   | 0.04 | 0.0   | 0.02 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.11 |
| 16  | 0.26  | 0.07  | 0.01 | 0.0   | 0.09 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| 17  | 0.0   | 0.0   | 0.09 | 0.0   | 0.02 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.11  | 0.05 |
| 18  | 0.20  | 0.11  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.25  | 0.0  |
| 19  | 0.0   | 0.16  | 0.0  | 0.0   | 0.0  | 0.0  | 0.01 | 0.03 | 0.0 | 0.0  | 0.01  | 0.11 |
| 20  | 0.09  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.01 | 0.0 | 0.02 | 0.0   | 0.37 |
| 21  | 0.0   | 0.03  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.09 | 0.0   | 0.02 |
| 22  | 0.0   | 0.04  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.01 |
| 23  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.26 | 0.0   | 0.0  |
| 24  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.10 | 0.0   | 0.0  |
| 25  | 0.03  | 0.0   | 0.22 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.06  | 0.0  |
| 26  | 0.05  | 0.03  | 0.12 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| 27  | 0.20  | 0.0   | 0.09 | 0.01  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.08  | 0.17 |
| 28  | 0.0   | 0.0 T | 0.01 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.41 | 0.0   | 0.0  |
| 29  | 0.0   | 0.0   | 0.21 | 0.0   | 0.02 | 0.0  | 0.01 | 0.0  | 0.0 | 0.35 | 0.0   | 0.01 |
| 30  | 0.0   | 0.0   | 0.08 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.09 |
| 31  | 0.16  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0  |
| TOTAL   | 1.24  | 0.57  | 2.65 | 0.48  | 0.32 | 0.89 | 0.40 | 0.20 | 0.0 | 1.76 | 1.12  | 1.81 |
| STA AV  |       |       |      |       |      |      |      |      |     |      |       |      |

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004) |       |       |      |      |      |      |       |      |     |      |       |       |
|---|-------|-------|------|------|------|------|-------|------|-----|------|-------|-------|
| Day   | Jan   | Feb   | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep | Oct  | Nov   | Dec   |
| 1   | 0.0 T | 0.03  | 0.65 | 0.32 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.01  | 0.0   |
| 2   | 0.0   | 0.0   | 0.13 | 0.07 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0 T | 0.0   |
| 3   | 0.0   | 0.0   | 0.01 | 0.03 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.0   |
| 4   | 0.0   | 0.12  | 0.09 | 0.0  | 0.0  | 0.26 | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.19  |
| 5   | 0.04  | 0.0   | 0.04 | 0.10 | 0.0  | 0.70 | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.01  |
| 6   | 0.0   | 0.0   | 0.42 | 0.0  | 0.0  | 0.0  | 0.03  | 0.19 | 0.0 | 0.0  | 0.0   | 0.15  |
| 7   | 0.02  | 0.0   | 0.34 | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 | 0.0 | 0.0  | 0.59  | 0.0   |
| 8   | 0.0   | 0.0   | 0.01 | 0.0  | 0.0  | 0.0  | 0.16  | 0.0  | 0.0 | 0.01 | 0.02  | 0.0   |
| 9   | 0.0   | 0.0   | 0.0  | 0.05 | 0.0  | 0.0  | 0.22  | 0.0  | 0.0 | 0.55 | 0.0   | 0.0   |
| 10  | 0.0   | 0.0   | 0.0  | 0.02 | 0.0  | 0.0  | 0.08  | 0.0  | 0.0 | 0.0  | 0.0   | 0.0   |
| 11  | 0.0 T | 0.0   | 0.0  | 0.10 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.23  |
| 12  | 0.12  | 0.0   | 0.17 | 0.01 | 0.21 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.32  |
| 13  | 0.08  | 0.0   | 0.06 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.0 T |
| 14  | 0.0   | 0.02  | 0.41 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.26  |
| 15  | 0.0   | 0.0   | 0.05 | 0.0  | 0.03 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.19  |
| 16  | 0.28  | 0.09  | 0.01 | 0.0  | 0.09 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.0   |
| 17  | 0.0   | 0.0   | 0.11 | 0.0  | 0.02 | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.11  | 0.09  |
| 18  | 0.22  | 0.15  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.27  | 0.0   |
| 19  | 0.0   | 0.22  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01  | 0.03 | 0.0 | 0.0  | 0.01  | 0.15  |
| 20  | 0.11  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.01 | 0.0 | 0.03 | 0.0   | 0.46  |
| 21  | 0.0   | 0.03  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.12 | 0.0   | 0.02  |
| 22  | 0.0   | 0.05  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.01  |
| 23  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.35 | 0.0   | 0.0   |
| 24  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.13 | 0.0   | 0.0   |
| 25  | 0.06  | 0.0   | 0.26 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.06  | 0.0   |
| 26  | 0.09  | 0.03  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.0   |
| 27  | 0.34  | 0.0   | 0.09 | 0.01 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.10  | 0.24  |
| 28  | 0.0   | 0.0 T | 0.01 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.45 | 0.0   | 0.0   |
| 29  | 0.0   | 0.0   | 0.23 | 0.0  | 0.02 | 0.0  | 0.01  | 0.0  | 0.0 | 0.38 | 0.0   | 0.01  |
| 30  | 0.0   | 0.0   | 0.08 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0 | 0.0  | 0.0   | 0.12  |
| 31  | 0.23  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 T | 0.0  | 0.0 | 0.0  | 0.0   | 0.0   |
| TOTAL   | 1.59  | 0.74  | 3.32 | 0.72 | 0.37 | 0.96 | 0.51  | 0.24 | 0.0 | 2.02 | 1.17  | 2.45  |
| STA AV  |       |       |      |      |      |      |       |      |     |      |       |       |

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

| 1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004) |        |        |        |        |        |        |        |       |       |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug   | Sep   | Oct    | Nov    | Dec    |
| 1   | 0.305  | 0.388  | 0.986  | 1.530  | 0.527  | 0.174  | 0.018  | 0.0   | 0.0   | 0.0    | 0.031  | 0.040  |
| 2   | 0.244  | 0.346  | 0.579  | 1.512  | 0.535  | 0.159  | 0.019  | 0.0   | 0.0   | 0.0    | 0.039  | 0.039  |
| 3   | 0.190  | 0.327  | 0.417  | 1.432  | 0.522  | 0.150  | 0.021  | 0.0   | 0.0   | 0.0    | 0.039  | 0.042  |
| 4   | 0.158  | 0.288  | 0.395  | 1.250  | 0.522  | 0.180  | 0.015  | 0.0   | 0.0   | 0.0    | 0.032  | 0.046  |
| 5   | 0.147  | 0.287  | 0.703  | 1.248  | 0.522  | 0.235  | 0.014  | 0.0   | 0.0   | 0.0    | 0.026  | 0.048  |
| 6   | 0.139  | 0.265  | 0.892  | 1.129  | 0.522  | 0.171  | 0.014  | 0.0   | 0.0   | 0.0    | 0.024  | 0.045  |
| 7   | 0.140  | 0.226  | 0.685  | 1.026  | 0.528  | 0.222  | 0.018  | 0.0   | 0.0   | 0.0    | 0.033  | 0.046  |
| 8   | 0.132  | 0.231  | 0.584  | 0.968  | 0.558  | 0.139  | 0.028  | 0.0   | 0.0   | 0.0    | 0.046  | 0.041  |
| 9   | 0.127  | 0.253  | 0.594  | 0.939  | 0.597  | 0.132  | 0.041  | 0.0   | 0.0   | 0.0    | 0.040  | 0.039  |
| 10  | 0.220  | 0.247  | 0.792  | 0.939  | 0.543  | 0.120  | 0.050  | 0.0   | 0.0   | 0.0    | 0.036  | 0.040  |
| 11  | 0.264  | 0.266  | 1.300  | 0.980  | 0.472  | 0.107  | 0.050  | 0.0   | 0.0   | 0.0    | 0.035  | 0.050  |
| 12  | 0.264  | 0.265  | 1.986  | 0.967  | 0.472  | 0.091  | 0.042  | 0.0   | 0.0   | 0.0    | 0.035  | 0.058  |
| 13  | 0.471  | 0.242  | 1.306  | 0.939  | 0.543  | 0.082  | 0.035  | 0.0   | 0.0   | 0.0    | 0.033  | 0.057  |
| 14  | 1.009  | 0.233  | 2.255  | 0.912  | 0.459  | 0.071  | 0.023  | 0.0   | 0.0   | 0.0    | 0.035  | 0.059  |
| 15  | 2.620  | 0.257  | 2.728  | 0.883  | 0.437  | 0.063  | 0.019  | 0.0   | 0.0   | 0.0    | 0.035  | 0.068  |
| 16  | 1.464  | 0.302  | 2.321  | 0.858  | 0.409  | 0.058  | 0.014  | 0.0   | 0.0   | 0.001  | 0.033  | 0.111  |
| 17  | 1.365  | 0.264  | 2.930  | 0.894  | 0.339  | 0.050  | 0.008  | 0.0   | 0.0   | 0.0    | 0.035  | 0.086  |
| 18  | 1.247  | 0.275  | 2.300  | 0.998  | 0.305  | 0.042  | 0.004  | 0.0   | 0.0   | 0.0    | 0.057  | 0.063  |
| 19  | 1.100  | 0.368  | 1.949  | 1.014  | 0.287  | 0.037  | 0.003  | 0.0   | 0.0   | 0.001  | 0.048  | 0.059  |
| 20  | 0.859  | 0.288  | 1.679  | 0.968  | 0.256  | 0.046  | 0.001  | 0.0   | 0.0   | 0.0    | 0.044  | 0.276  |
| 21  | 0.732  | 0.274  | 1.544  | 0.939  | 0.234  | 0.048  | 0.003  | 0.0   | 0.0   | 0.001  | 0.044  | 0.195  |
| 22  | 0.685  | 0.257  | 1.428  | 0.870  | 0.217  | 0.045  | 0.001  | 0.0   | 0.0   | 0.001  | 0.039  | 0.090  |
| 23  | 0.662  | 0.247  | 1.320  | 0.869  | 0.208  | 0.045  | 0.001  | 0.0   | 0.0   | 0.004  | 0.040  | 0.086  |
| 24  | 0.629  | 0.243  | 1.250  | 0.886  | 0.202  | 0.037  | 0.001  | 0.0   | 0.0   | 0.004  | 0.039  | 0.086  |
| 25  | 0.541  | 0.243  | 1.327  | 0.859  | 0.198  | 0.031  | 0.0    | 0.0   | 0.0   | 0.003  | 0.040  | 0.086  |
| 26  | 0.489  | 0.247  | 1.449  | 0.743  | 0.202  | 0.031  | 0.001  | 0.0   | 0.0   | 0.004  | 0.039  | 0.085  |
| 27  | 0.481  | 0.233  | 1.408  | 0.707  | 0.190  | 0.032  | 0.0    | 0.0   | 0.0   | 0.003  | 0.042  | 0.078  |
| 28  | 0.404  | 0.309  | 1.469  | 0.662  | 0.198  | 0.028  | 0.001  | 0.0   | 0.0   | 0.005  | 0.044  | 0.069  |
| 29  | 0.372  |        | 1.493  | 0.576  | 0.204  | 0.024  | 0.0    | 0.0   | 0.0   | 0.009  | 0.042  | 0.071  |
| 30  | 0.355  |        | 1.522  | 0.527  | 0.210  | 0.024  | 0.0    | 0.0   | 0.0   | 0.019  | 0.039  | 0.069  |
| 31  | 0.419  |        | 1.427  |        | 0.198  |        | 0.0    | 0.0   |       | 0.027  |        | 0.066  |
| MEAN  | 0.5882 | 0.2739 | 1.3876 | 0.9673 | 0.3747 | 0.0892 | 0.0144 | 0.0   | 0.0   | 0.0027 | 0.0380 | 0.0740 |
| INCHES  | 1.418  | 0.596  | 3.346  | 2.257  | 0.903  | 0.208  | 0.035  | 0.0   | 0.0   | 0.006  | 0.089  | 0.178  |
| STA AV  | 1.681  | 0.818  | 1.790  | 1.731  | 0.872  | 0.287  | 0.053  | 0.003 | 0.003 | 0.032  | 0.140  | 0.392  |

NOTES: To convert CFS to IN/DAY, multiply by 0.077783. STA AV based on 7 yr (1968-74) record period.



## REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | REYNOLDS, IDAHO SUMMIT WATERSHED (048077) |       |   |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---|-------|---|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jau               | Feb   | Mar    | Apr   | May                                       | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov    | Dec   | Annual |       |
| 1974  | P | 0.48              | 0.20  | 1.93   | 0.14  | 0.14                                      | 0.15  | 0.36                                      | 0.11  | 0.0   | 1.76  | 0.30   | 0.94  | 6.51   |       |
|   | Q | 0.0               | 0.0   | 0.0    | 0.0   | 0.0                                       | 0.0   | 0.0                                       | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |       |
| STA AV  | P | 1.43              | 0.43  | 0.94   | 0.76  | 0.53                                      | 1.32  | 0.12                                      | 0.71  | 0.61  | 0.92  | 1.10   | 1.09  | 9.96   |       |
|   | Q | 0.002             | 0.0   | 0.0    | 0.002 | 0.0                                       | 0.009 | 0.0                                       | 0.010 | 0.0   | 0.0   | 0.0    | 0.0   | 0.023  |       |
|   |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
|   |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                                   |       | Maximum Volume for Selected Time Interval |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                                      | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 1- 1              | 0.0   | 1- 1   | 0.0   | 1- 1                                      | 0.0   | 1- 1                                      | 0.0   | 1- 1  | 0.0   | 1- 1   | 0.0   | 1- 1   | 0.0   |
|   |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
|   |   | 6-19              | 0.258 | 6-19   | 0.059 | 6-19                                      | 0.059 | 6-19                                      | 0.070 | 6-20  | 0.070 | 6-20   | 0.070 | 8- 9   | 0.083 |
|   |   | 1969              |       | 1969   |       | 1969                                      |       | 1969                                      |       | 1969  |       | 1969   |       | 1968   |       |

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: 'Computed Actual' amounts from 1 rain gage. Station average precipitation amounts are based on 1968-74 period of record. Station average runoff amounts are based on 1967-74 period of record. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

| 1974   |      | DAILY PRECIPITATION (iuches) |      |      |      |      | REYNOLDS, IDAHO SUMMIT WATERSHED (048077) |      |      |      |      |      |  |
|--------|------|------------------------------|------|------|------|------|---|------|------|------|------|------|--|
| Day    | Jau  | Feb                          | Mar  | Apr  | May  | Juu  | Jul                                       | Aug  | Sep  | Oct  | Nov  | Dec  |  |
| 1      | 0.0  | 0.0                          | 0.41 | 0.04 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 2      | 0.0  | 0.0                          | 0.18 | 0.01 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  |  |
| 3      | 0.0  | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 4      | 0.0  | 0.05                         | 0.0  | 0.0  | 0.0  | 0.02 | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 |  |
| 5      | 0.09 | 0.0                          | 0.04 | 0.0  | 0.0  | 0.13 | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 6      | 0.0  | 0.0                          | 0.49 | 0.0  | 0.0  | 0.0  | 0.03                                      | 0.10 | 0.0  | 0.0  | 0.0  | 0.03 |  |
| 7      | 0.0  | 0.0                          | 0.37 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  |  |
| 8      | 0.0  | 0.0                          | 0.04 | 0.0  | 0.0  | 0.0  | 0.03                                      | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  |  |
| 9      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.28                                      | 0.0  | 0.0  | 0.36 | 0.01 | 0.0  |  |
| 10     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.01                                      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 11     | 0.0  | 0.0                          | 0.02 | 0.04 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 |  |
| 12     | 0.02 | 0.0                          | 0.01 | 0.04 | 0.10 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 |  |
| 13     | 0.0  | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 14     | 0.0  | 0.0                          | 0.21 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 15     | 0.0  | 0.0                          | 0.02 | 0.0  | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |  |
| 16     | 0.06 | 0.0                          | 0.0  | 0.0  | 0.02 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0  | 0.0                          | 0.01 | 0.0  | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |  |
| 18     | 0.14 | 0.03                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  |  |
| 19     | 0.0  | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.04 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.04 | 0.0  | 0.04 |  |
| 21     | 0.0  | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 22     | 0.0  | 0.01                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 23     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  |  |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  |  |
| 25     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  |  |
| 26     | 0.01 | 0.03                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 27     | 0.07 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.04 | 0.36 |  |
| 28     | 0.0  | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.60 | 0.0  | 0.0  |  |
| 29     | 0.0  |                              | 0.03 | 0.0  | 0.0  | 0.0  | 0.01                                      | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  |  |
| 30     | 0.0  |                              | 0.07 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 |  |
| 31     | 0.05 |                              | 0.0  |      | 0.0  |      | 0.0                                       | 0.0  |      | 0.0  |      | 0.0  |  |
| TOTAL  | 0.48 | 0.20                         | 1.93 | 0.14 | 0.14 | 0.15 | 0.36                                      | 0.11 | 0.0  | 1.76 | 0.30 | 0.94 |  |
| STA AV | 1.43 | 0.43                         | 0.94 | 0.76 | 0.53 | 1.32 | 0.12                                      | 0.71 | 0.61 | 0.92 | 1.10 | 1.09 |  |

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamou, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Oslo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for 68.012.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | REYNOLDS, IDAHO SUMMIT WATERSHED (048077) |      |      |     |      |      |      |  |
|--------|------------------------------|------|------|------|------|---|------|------|-----|------|------|------|--|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                                       | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |  |
| 1      | 0.0                          | 0.0  | 0.23 | 0.04 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 2      | 0.0                          | 0.0  | 0.09 | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.02 | 0.0  |  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 4      | 0.0                          | 0.05 | 0.0  | 0.0  | 0.0  | 0.02                                      | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.12 |  |
| 5      | 0.09                         | 0.0  | 0.01 | 0.0  | 0.0  | 0.13                                      | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 6      | 0.0                          | 0.0  | 0.27 | 0.0  | 0.0  | 0.0                                       | 0.03 | 0.10 | 0.0 | 0.0  | 0.0  | 0.03 |  |
| 7      | 0.0                          | 0.0  | 0.21 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.10 | 0.0  |  |
| 8      | 0.0                          | 0.0  | 0.02 | 0.0  | 0.0  | 0.0                                       | 0.03 | 0.0  | 0.0 | 0.0  | 0.03 | 0.0  |  |
| 9      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.26 | 0.0  | 0.0 | 0.34 | 0.01 | 0.0  |  |
| 10     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.01 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 11     | 0.0                          | 0.0  | 0.01 | 0.04 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.04 |  |
| 12     | 0.02                         | 0.0  | 0.01 | 0.04 | 0.10 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.13 |  |
| 13     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.01 | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 14     | 0.0                          | 0.0  | 0.17 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 15     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.01 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.07 |  |
| 16     | 0.06                         | 0.0  | 0.0  | 0.0  | 0.02 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.01 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.02 |  |
| 18     | 0.14                         | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.09 | 0.0  |  |
| 19     | 0.0                          | 0.04 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 0.04 |  |
| 21     | 0.0                          | 0.02 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 22     | 0.0                          | 0.01 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.32 | 0.0  | 0.0  |  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.08 | 0.0  | 0.0  |  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.01 | 0.0  |  |
| 26     | 0.01                         | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 27     | 0.07                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.14 |  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.56 | 0.0  | 0.0  |  |
| 29     | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.01 | 0.0  | 0.0 | 0.31 | 0.0  | 0.0  |  |
| 30     | 0.0                          | 0.07 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.03 |  |
| 31     | 0.05                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| TOTAL  | 0.48                         | 0.18 | 1.15 | 0.14 | 0.14 | 0.15                                      | 0.34 | 0.11 | 0.0 | 1.65 | 0.30 | 0.62 |  |
| STA AV |                              |      |      |      |      |   |      |      |     |      |      |      |  |

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | REYNOLDS, IDAHO SUMMIT WATERSHED (048077) |      |      |     |      |      |      |  |
|--------|------------------------------|------|------|------|------|---|------|------|-----|------|------|------|--|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun                                       | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |  |
| 1      | 0.0                          | 0.0  | 0.35 | 0.04 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 2      | 0.0                          | 0.0  | 0.15 | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.02 | 0.0  |  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.01 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 4      | 0.0                          | 0.05 | 0.0  | 0.0  | 0.0  | 0.02                                      | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.12 |  |
| 5      | 0.09                         | 0.0  | 0.03 | 0.0  | 0.0  | 0.13                                      | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 6      | 0.0                          | 0.0  | 0.40 | 0.0  | 0.0  | 0.0                                       | 0.03 | 0.10 | 0.0 | 0.0  | 0.0  | 0.03 |  |
| 7      | 0.0                          | 0.0  | 0.29 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.10 | 0.0  |  |
| 8      | 0.0                          | 0.0  | 0.04 | 0.0  | 0.0  | 0.0                                       | 0.04 | 0.0  | 0.0 | 0.0  | 0.03 | 0.0  |  |
| 9      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.26 | 0.0  | 0.0 | 0.36 | 0.01 | 0.0  |  |
| 10     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.01 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 11     | 0.0                          | 0.0  | 0.01 | 0.04 | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |  |
| 12     | 0.02                         | 0.0  | 0.02 | 0.04 | 0.10 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.14 |  |
| 13     | 0.0                          | 0.0  | 0.02 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.01 | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 14     | 0.0                          | 0.0  | 0.19 | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 15     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.01 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.08 |  |
| 16     | 0.06                         | 0.0  | 0.0  | 0.0  | 0.02 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.01 | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.02 |  |
| 18     | 0.14                         | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.09 | 0.0  |  |
| 19     | 0.0                          | 0.04 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 0.04 |  |
| 21     | 0.0                          | 0.02 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 22     | 0.0                          | 0.01 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.33 | 0.0  | 0.0  |  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.10 | 0.0  | 0.0  |  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.01 | 0.0  |  |
| 26     | 0.01                         | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 27     | 0.07                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.24 |  |
| 28     | 0.0                          | 0.01 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.57 | 0.0  | 0.0  |  |
| 29     | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.01 | 0.0  | 0.0 | 0.32 | 0.0  | 0.0  |  |
| 30     | 0.0                          | 0.07 | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |  |
| 31     | 0.05                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                                       | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| TOTAL  | 0.48                         | 0.19 | 1.62 | 0.14 | 0.14 | 0.15                                      | 0.35 | 0.11 | 0.0 | 1.72 | 0.30 | 0.77 |  |
| STA AV |                              |      |      |      |      |   |      |      |     |      |      |      |  |

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

| 1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SUMMIT WATERSHED (048077) |       |     |     |       |     |       |     |       |     |     |     |     |
|---|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-----|-----|
| Day   | Jan   | Feb | Mar | Apr   | May | Jun   | Jul | Aug   | Sep | Oct | Nov | Dec |
| 1   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 2   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 3   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 4   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 5   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 6   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 7   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 8   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 9   | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 10  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 11  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 12  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 13  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 14  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 15  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 16  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 17  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 18  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 19  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 20  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 21  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 22  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 23  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 24  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 25  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 26  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 27  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 28  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 29  | 0.0   |     | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 30  | 0.0   |     | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| 31  | 0.0   |     | 0.0 |       | 0.0 |       | 0.0 | 0.0   |     | 0.0 |     | 0.0 |
| MEAN  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| INCHES  | 0.0   | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |
| STA AV  | 0.002 | 0.0 | 0.0 | 0.002 | 0.0 | 0.009 | 0.0 | 0.010 | 0.0 | 0.0 | 0.0 | 0.0 |

NOTES: To convert CFS to IN/DAY, multiply by 0.1161056. STA AV values are based on 8 yr (1967-74) record period.

## REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa, north flowing tributary to the east fork of Reynolds Creek, Snake River Basin. Lat. 43 deg. 4 min. 16 sec. N.; Long. 116 deg. 45 min. 27 sec. W.

AREA: 100.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSEED (166076) |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|--|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun  | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 6.69              | 3.75  | 8.27   | 3.29  | 0.73    | 1.14   | 1.16                                      | 0.21  | 0.0     | 2.66  | 2.63     | 6.93  | 37.46  |       |        |       |        |      |
|   | Q | 0.534             | 0.263 | 0.816  | 3.484 | 12.371  | 7.774  | 0.706                                     | 0.089 | 0.044   | 0.116 | 0.152    | 0.171 | 26.518 |       |        |       |        |      |
| STA AV  | P | 7.75              | 3.66  | 4.10   | 3.06  | 1.55    | 2.04   | 0.59                                      | 1.07  | 1.25    | 2.77  | 4.95     | 6.84  | 39.63  |       |        |       |        |      |
|   | Q | 0.422             | 0.325 | 0.701  | 2.639 | 10.556  | 4.615  | 0.462                                     | 0.084 | 0.061   | 0.128 | 0.236    | 0.193 | 20.426 |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |  |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |  | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.   | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 5- 7              | 0.043 | 5- 8   | 0.042 | 5- 8    | 0.083  | 5- 8                                      | 0.234 | 5- 8    | 0.418 | 5- 8     | 0.711 | 5- 7   | 1.377 | 5- 4   | 4.535 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |  |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6- 6              | 0.062 | 5- 7   | 0.055 | 5- 7    | 0.109  | 5- 7                                      | 0.308 | 5- 7    | 0.540 | 5- 7     | 0.893 | 5- 6   | 1.741 | 5- 4   | 6.698 |        |      |
|   |   | 1972              |       | 1971   |       | 1971    |  | 1971                                      |       | 1971    |       | 1971     |       | 1971   |       | 1971   |       |        |      |

NOTES: Watershed conditions: Bungalow watershed with seasonal grazing of cattle and sheep. Scrub aspen, willow, scattered Douglas fir, and sagebrush with natural mountain meadows. Vegetative cover varies with annual precipitation type of cover is 32% shrub and brush, 17% grass and forbes, and 9% rock and rock fragments. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.13-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: 'Computed Actual' amounts from one rain gage. Station average precipitation values based on 1968-74 record period. Station average runoff values based on 1966-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

| 1974 DAILY AIE TEMPEATUEE (degrees F) |      |     |      |     |      |     |      |     |      |     |      |     | EYNOLDS, IDAHO EYNOLDS MOUNTAIN WATERSHED (166076) |     |      |     |      |     |      |     |      |     |      |     |  |
|---------------------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|--|-----|------|-----|------|-----|------|-----|------|-----|------|-----|--|
| Day                                   | Jan  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul  |     | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |  |
|                                       | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min |  |
| 1                                     | 9    | 2   | 25   | 17  | 38   | 22  | 32   | 22  | 52   | 29  | 61   | 41  | 69   | 47  | 79   | 58  | 69   | 52  | 67   | 49  | 29   | 26  | 38   | 28  |  |
| 2                                     | 6    | 2   | 24   | 16  | 22   | 17  | 25   | 20  | 42   | 22  | 66   | 49  | 59   | 40  | 69   | 55  | 65   | 45  | 67   | 43  | 31   | 26  | 42   | 30  |  |
| 3                                     | 8    | 0   | 36   | 22  | 16   | 11  | 26   | 17  | 45   | 31  | 61   | 46  | 71   | 46  | 74   | 52  | 73   | 50  | 51   | 37  | 32   | 24  | 37   | 29  |  |
| 4                                     | 13   | 0   | 29   | 15  | 24   | 11  | 35   | 15  | 51   | 33  | 51   | 42  | 75   | 56  | 76   | 58  | 72   | 53  | 45   | 28  | 36   | 24  | 37   | 25  |  |
| 5                                     | 10   | 1   | 16   | 13  | 30   | 24  | 41   | 26  | 68   | 42  | 49   | 37  | 68   | 49  | 76   | 56  | 67   | 46  | 39   | 22  | 39   | 27  | 28   | 22  |  |
| 6                                     | 19   | 9   | 19   | 9   | 24   | 14  | 31   | 22  | 59   | 44  | 52   | 34  | 60   | 46  | 56   | 51  | 74   | 51  | 51   | 26  | 43   | 28  | 30   | 24  |  |
| 7                                     | 15   | 3   | 24   | 14  | 29   | 14  | 42   | 20  | 61   | 39  | 39   | 26  | 67   | 46  | 65   | 48  | 73   | 58  | 54   | 40  | 44   | 29  | 29   | 20  |  |
| 8                                     | 10   | 0   | 33   | 21  | 27   | 5   | 42   | 32  | 61   | 47  | 55   | 30  | 56   | 40  | 62   | 41  | 70   | 53  | 56   | 43  | 30   | 19  | 36   | 22  |  |
| 9                                     | 16   | 2   | 39   | 21  | 33   | 7   | 38   | 22  | 49   | 33  | 65   | 44  | 49   | 36  | 61   | 41  | 65   | 52  | 45   | 36  | 29   | 20  | 34   | 25  |  |
| 10                                    | 11   | 1   | 45   | 24  | 38   | 22  | 30   | 23  | 41   | 28  | 78   | 49  | 45   | 34  | 69   | 47  | 59   | 39  | 51   | 35  | 30   | 25  | 34   | 23  |  |
| 11                                    | 24   | 6   | 36   | 26  | 39   | 26  | 44   | 23  | 52   | 30  | 73   | 58  | 53   | 33  | 71   | 51  | 51   | 33  | 47   | 33  | 44   | 28  | 31   | 24  |  |
| 12                                    | 29   | 23  | 31   | 24  | 37   | 25  | 24   | 12  | 42   | 22  | 77   | 59  | 62   | 42  | 71   | 53  | 49   | 32  | 53   | 38  | 47   | 40  | 30   | 21  |  |
| 13                                    | 30   | 28  | 31   | 20  | 25   | 16  | 35   | 17  | 34   | 18  | 75   | 56  | 71   | 43  | 60   | 43  | 53   | 35  | 56   | 41  | 47   | 38  | 20   | 17  |  |
| 14                                    | 37   | 29  | 28   | 23  | 34   | 25  | 44   | 22  | 41   | 27  | 79   | 61  | 75   | 60  | 59   | 36  | 61   | 43  | 56   | 39  | 47   | 37  | 28   | 20  |  |
| 15                                    | 41   | 37  | 36   | 24  | 45   | 34  | 49   | 33  | 33   | 18  | 75   | 56  | 74   | 53  | 67   | 47  | 66   | 48  | 62   | 43  | 43   | 31  | 33   | 23  |  |
| 16                                    | 42   | 33  | 33   | 19  | 45   | 38  | 43   | 29  | 29   | 22  | 81   | 56  | 72   | 51  | 73   | 53  | 68   | 49  | 66   | 48  | 45   | 31  | 34   | 31  |  |
| 17                                    | 34   | 24  | 24   | 18  | 38   | 23  | 46   | 33  | 32   | 20  | 81   | 63  | 75   | 54  | 74   | 55  | 60   | 56  | 63   | 48  | 46   | 30  | 31   | 17  |  |
| 18                                    | 36   | 28  | 30   | 18  | 34   | 19  | 48   | 31  | 37   | 20  | 80   | 63  | 77   | 59  | 75   | 56  | 70   | 52  | 62   | 46  | 30   | 25  | 26   | 16  |  |
| 19                                    | 33   | 25  | 29   | 16  | 35   | 14  | 38   | 24  | 38   | 22  | 75   | 44  | 79   | 62  | 50   | 37  | 68   | 51  | 65   | 52  | 29   | 23  | 28   | 21  |  |
| 20                                    | 25   | 12  | 23   | 14  | 33   | 8   | 38   | 22  | 43   | 26  | 61   | 40  | 77   | 59  | 57   | 33  | 68   | 50  | 56   | 26  | 42   | 29  | 34   | 28  |  |
| 21                                    | 20   | 10  | 28   | 17  | 35   | 16  | 47   | 27  | 48   | 29  | 67   | 46  | 80   | 59  | 67   | 47  | 66   | 50  | 27   | 22  | 43   | 32  | 35   | 13  |  |
| 22                                    | 25   | 14  | 17   | 10  | 33   | 21  | 53   | 40  | 54   | 38  | 72   | 53  | 77   | 57  | 69   | 55  | 66   | 51  | 31   | 21  | 31   | 15  | 14   | 11  |  |
| 23                                    | 28   | 22  | 27   | 7   | 34   | 15  | 51   | 31  | 58   | 42  | 79   | 58  | 72   | 53  | 72   | 56  | 66   | 51  | 32   | 25  | 32   | 21  | 14   | 8   |  |
| 24                                    | 34   | 23  | 34   | 14  | 42   | 24  | 40   | 25  | 58   | 42  | 74   | 56  | 75   | 51  | 73   | 56  | 66   | 47  | 37   | 26  | 44   | 30  | 19   | 10  |  |
| 25                                    | 29   | 19  | 38   | 30  | 40   | 30  | 38   | 21  | 64   | 44  | 70   | 51  | 75   | 54  | 77   | 56  | 71   | 54  | 52   | 37  | 41   | 21  | 24   | 14  |  |
| 26                                    | 20   | 15  | 32   | 16  | 43   | 31  | 35   | 19  | 67   | 49  | 63   | 36  | 79   | 58  | 64   | 56  | 61   | 31  | 51   | 43  | 36   | 19  | 27   | 12  |  |
| 27                                    | 27   | 17  | 30   | 16  | 39   | 30  | 31   | 21  | 60   | 40  | 69   | 48  | 78   | 63  | 77   | 59  | 50   | 28  | 47   | 37  | 35   | 20  | 31   | 14  |  |
| 28                                    | 24   | 21  | 38   | 30  | 33   | 26  | 37   | 25  | 52   | 33  | 68   | 49  | 80   | 60  | 76   | 58  | 60   | 40  | 39   | 30  | 30   | 17  | 14   | 7   |  |
| 29                                    | 28   | 22  |      |     | 36   | 27  | 50   | 29  | 50   | 36  | 69   | 48  | 77   | 62  | 74   | 56  | 64   | 48  | 39   | 31  | 35   | 22  | 22   | 5   |  |
| 30                                    | 30   | 24  |      |     | 37   | 22  | 59   | 37  | 49   | 29  | 79   | 54  | 77   | 53  | 74   | 59  | 65   | 49  | 34   | 30  | 36   | 26  | 18   | 11  |  |
| 31                                    | 29   | 26  |      |     | 35   | 18  |      |     | 60   | 36  |      |     | 78   | 59  | 72   | 56  |      |     | 32   | 28  |      |     | 23   | 7   |  |
| AV.                                   | 24   | 15  | 30   | 18  | 34   | 20  | 40   | 25  | 49   | 32  | 68   | 48  | 70   | 51  | 69   | 51  | 65   | 47  | 49   | 36  | 38   | 26  | 28   | 19  |  |
| MEAN                                  | 19.7 |     | 24.1 |     | 27.3 |     | 32.2 |     | 40.7 |     | 58.3 |     | 60.8   |     | 60.1 |     | 55.6 |     | 42.6 |     | 31.9 |     | 23.6 |     |  |
| STA AV                                | 28   | 19  | 32   | 21  | 33   | 22  | 38   | 23  | 53   | 36  | 63   | 44  | 73   | 54  | 73   | 54  | 61   | 43  | 46   | 32  | 36   | 26  | 28   | 18  |  |

NOTES: Temperature data are taken from hygrothermograph record at station 176X14. STA AV based on 1966-74 record period.



| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.01 | 0.10 | 1.04 | 1.73 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  |
| 2  | 0.0  | 0.0  | 0.70 | 0.16 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.16 | 0.0  |
| 3  | 0.0  | 0.0  | 0.03 | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.39 | 0.66 | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 |
| 5  | 0.13 | 0.0  | 0.30 | 0.27 | 0.0  | 0.76 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |
| 6  | 0.31 | 0.0  | 1.14 | 0.18 | 0.0  | 0.0  | 0.09 | 0.18 | 0.0  | 0.0  | 0.0  | 0.06 |
| 7  | 0.0  | 0.0  | 0.64 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  |
| 8  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.34 | 0.0  | 0.0  | 0.07 | 0.08 | 0.0  |
| 9  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.64 | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.20 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.94 |
| 12   | 0.97 | 0.0  | 0.06 | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 |
| 13   | 0.78 | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 |
| 14   | 0.0  | 0.02 | 0.95 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.04 |
| 15   | 0.0  | 0.05 | 0.11 | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 |
| 16   | 0.23 | 0.80 | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17   | 0.10 | 0.03 | 0.21 | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.39 |
| 18   | 0.54 | 0.99 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 | 0.01 |
| 19   | 0.12 | 0.78 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.38 |
| 20   | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 1.55 |
| 21   | 0.01 | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.26 |
| 22   | 0.12 | 0.16 | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.08 |
| 23   | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  |
| 25   | 0.16 | 0.0  | 0.20 | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.04 |
| 26   | 0.58 | 0.10 | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 27   | 1.08 | 0.02 | 0.17 | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.70 |
| 28   | 0.0  | 0.0  | 0.08 | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  |
| 29   | 0.0  | 0.0  | 1.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.43 |
| 31   | 1.47 | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| TOTAL  | 6.69 | 3.75 | 8.27 | 3.29 | 0.73 | 1.14 | 1.16 | 0.21 | 0.0  | 2.66 | 2.63 | 6.93 |
| STA AV   | 7.75 | 3.66 | 4.10 | 3.06 | 1.55 | 2.04 | 0.59 | 1.07 | 1.25 | 2.77 | 4.95 | 6.84 |

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176X07. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |      |      |      |      |      |      |      |      |     |      |      |      |
|--|------|------|------|------|------|------|------|------|-----|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |
| 1  | 0.01 | 0.05 | 0.52 | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.08 | 0.0  |
| 2  | 0.0  | 0.0  | 0.34 | 0.07 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0 | 0.0  | 0.10 | 0.0  |
| 3  | 0.0  | 0.0  | 0.01 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.23 | 0.26 | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |
| 5  | 0.03 | 0.0  | 0.12 | 0.12 | 0.0  | 0.70 | 0.0  | 0.01 | 0.0 | 0.0  | 0.0  | 0.0  |
| 6  | 0.07 | 0.0  | 0.62 | 0.07 | 0.0  | 0.0  | 0.09 | 0.18 | 0.0 | 0.0  | 0.0  | 0.06 |
| 7  | 0.0  | 0.0  | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.46 | 0.0  |
| 8  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0 | 0.07 | 0.05 | 0.0  |
| 9  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.60 | 0.0  | 0.0 | 0.62 | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.11 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.53 |
| 12   | 0.47 | 0.0  | 0.03 | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.40 |
| 13   | 0.38 | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.03 |
| 14   | 0.0  | 0.01 | 0.50 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.59 |
| 15   | 0.0  | 0.02 | 0.05 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.12 |
| 16   | 0.16 | 0.33 | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 17   | 0.07 | 0.01 | 0.11 | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.05 | 0.22 |
| 18   | 0.40 | 0.43 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.59 | 0.01 |
| 19   | 0.08 | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.03 | 0.26 |
| 20   | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 1.08 |
| 21   | 0.01 | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.15 | 0.0  | 0.13 |
| 22   | 0.02 | 0.07 | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0 | 0.0  | 0.02 | 0.04 |
| 23   | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.42 | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.10 | 0.0  | 0.0  |
| 25   | 0.03 | 0.0  | 0.13 | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.15 | 0.02 |
| 26   | 0.15 | 0.05 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |
| 27   | 0.30 | 0.01 | 0.11 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.13 | 0.35 |
| 28   | 0.0  | 0.0  | 0.05 | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.62 | 0.0  | 0.0  |
| 29   | 0.0  | 0.0  | 0.85 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.43 | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.14 |
| 31   | 0.71 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| TOTAL  | 2.93 | 1.68 | 4.48 | 1.40 | 0.56 | 1.06 | 1.13 | 0.21 | 0.0 | 2.45 | 1.66 | 4.04 |
| STA AV   |      |      |      |      |      |      |      |      |     |      |      |      |

NOTES: Values are amounts from unshielded recording gage 176407. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |      |      |     |      |      |      |  |
|--------|------------------------------|------|------|------|------|--|------|------|-----|------|------|------|--|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |  |
| 1      | 0.01                         | 0.07 | 0.77 | 1.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.10 | 0.0  |  |
| 2      | 0.0                          | 0.0  | 0.50 | 0.11 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0 | 0.0  | 0.13 | 0.0  |  |
| 3      | 0.0                          | 0.0  | 0.02 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 4      | 0.0                          | 0.31 | 0.44 | 0.0  | 0.0  | 0.32   | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |  |
| 5      | 0.07                         | 0.0  | 0.20 | 0.19 | 0.0  | 0.73   | 0.0  | 0.01 | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 6      | 0.16                         | 0.0  | 0.88 | 2.12 | 0.0  | 0.0  | 0.09 | 0.18 | 0.0 | 0.0  | 0.0  | 0.06 |  |
| 7      | 0.0                          | 0.0  | 0.50 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.55 | 0.0  |  |
| 8      | 0.0                          | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0 | 0.07 | 0.07 | 0.0  |  |
| 9      | 0.0                          | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.62 | 0.0  | 0.0 | 0.63 | 0.0  | 0.0  |  |
| 10     | 0.0                          | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 11     | 0.0                          | 0.0  | 0.15 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.73 |  |
| 12     | 0.70                         | 0.0  | 0.05 | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.55 |  |
| 13     | 0.57                         | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |  |
| 14     | 0.0                          | 0.01 | 0.72 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.81 |  |
| 15     | 0.0                          | 0.04 | 0.08 | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.16 |  |
| 16     | 0.20                         | 0.54 | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.08                         | 0.01 | 0.16 | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.06 | 0.30 |  |
| 18     | 0.48                         | 0.69 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.78 | 0.01 |  |
| 19     | 0.10                         | 0.54 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.33 |  |
| 20     | 0.05                         | 0.0  | 2.0  | 0.0  | 0.0  | 0.01   | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 1.32 |  |
| 21     | 2.01                         | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.16 | 0.0  | 0.19 |  |
| 22     | 0.07                         | 0.12 | 0.0  | 0.0  | 0.0  | 0.04   | 0.0  | 0.0  | 0.0 | 0.0  | 0.03 | 0.06 |  |
| 23     | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.46 | 0.0  | 0.0  |  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.11 | 0.0  | 0.0  |  |
| 25     | 0.99                         | 0.0  | 0.17 | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.19 | 0.03 |  |
| 26     | 0.35                         | 0.07 | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |  |
| 27     | 0.65                         | 0.01 | 0.14 | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.21 | 0.52 |  |
| 28     | 0.0                          | 0.0  | 0.07 | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.65 | 0.0  | 0.0  |  |
| 29     | 0.0                          | 0.0  | 1.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.45 | 0.0  | 0.0  |  |
| 30     | 0.0                          | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.26 |  |
| 31     | 1.06                         | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| TOTAL  | 4.67                         | 2.61 | 6.32 | 2.29 | 0.65 | 1.10   | 1.15 | 0.21 | 0.0 | 2.57 | 2.16 | 5.44 |  |
| STA AV |                              |      |      |      |      |  |      |      |     |      |      |      |  |

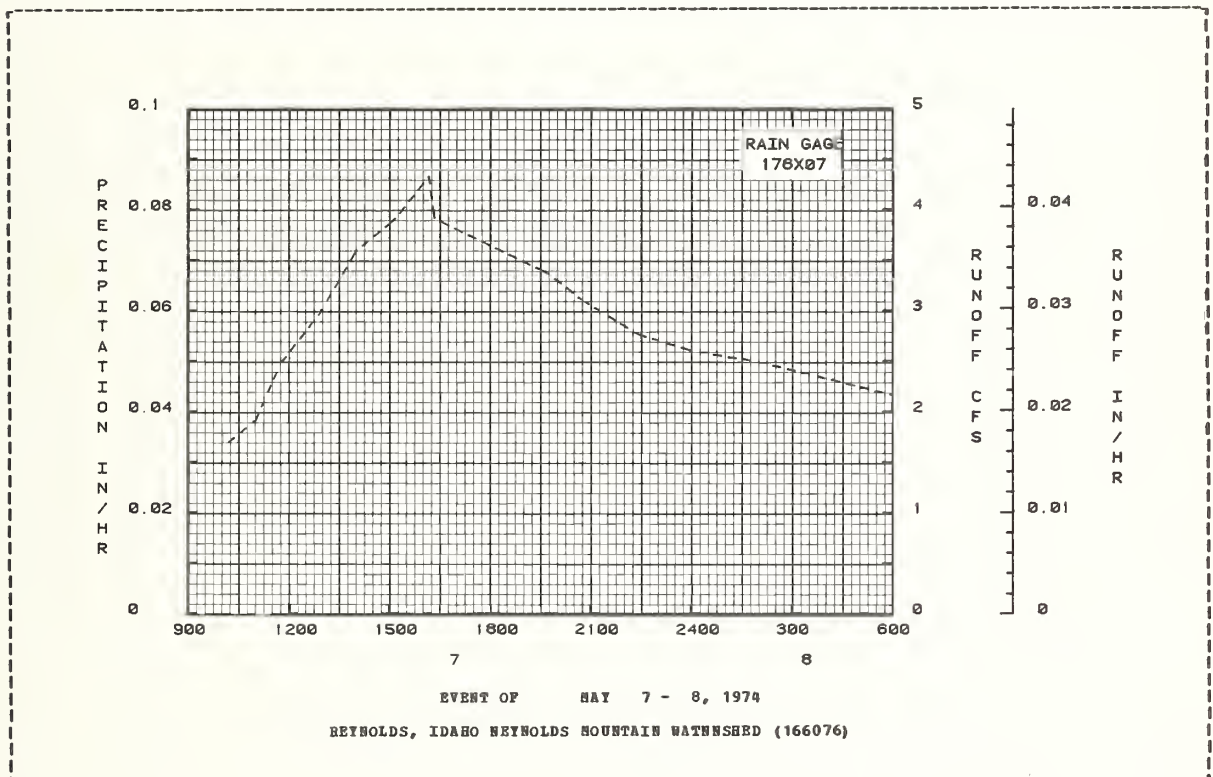
NOTES: Values are amounts from shielded recording gage 176507. STA AV do not apply to shielded rain gage records.

| 1974   | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |        |        |        |        |        |        |  |
|--------|----------------------------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--|
| Day    | Jan                        | Feb    | Mar    | Apr    | May    | Jun  | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |  |
| 1      | 0.026                      | 0.053  | 0.033  | 0.218  | 1.702  | 1.684  | 0.273  | 0.017  | 0.006  | 0.006  | 0.024  | 0.019  |  |
| 2      | 0.026                      | 0.051  | 0.038  | 0.195  | 1.530  | 1.746  | 0.235  | 0.020  | 0.007  | 0.006  | 0.022  | 0.018  |  |
| 3      | 0.026                      | 0.051  | 0.034  | 0.175  | 1.612  | 1.780  | 0.207  | 0.017  | 0.006  | 0.006  | 0.022  | 0.024  |  |
| 4      | 0.026                      | 0.048  | 0.034  | 0.158  | 1.846  | 1.797  | 0.174  | 0.016  | 0.006  | 0.008  | 0.020  | 0.026  |  |
| 5      | 0.026                      | 0.046  | 0.033  | 0.142  | 2.152  | 2.501  | 0.158  | 0.016  | 0.006  | 0.009  | 0.018  | 0.023  |  |
| 6      | 0.026                      | 0.046  | 0.033  | 0.133  | 2.173  | 1.718  | 0.164  | 0.026  | 0.005  | 0.009  | 0.018  | 0.022  |  |
| 7      | 0.026                      | 0.046  | 0.032  | 0.127  | 2.630  | 1.383  | 0.141  | 0.022  | 0.006  | 0.011  | 0.022  | 0.022  |  |
| 8      | 0.026                      | 0.046  | 0.032  | 0.127  | 2.896  | 1.150  | 0.171  | 0.017  | 0.005  | 0.010  | 0.020  | 0.020  |  |
| 9      | 0.026                      | 0.045  | 0.032  | 0.137  | 2.699  | 1.178  | 0.228  | 0.016  | 0.005  | 0.025  | 0.019  | 0.017  |  |
| 10     | 0.026                      | 0.044  | 0.032  | 0.131  | 2.225  | 1.202  | 0.205  | 0.016  | 0.007  | 0.012  | 0.019  | 0.016  |  |
| 11     | 0.026                      | 0.041  | 0.030  | 0.124  | 2.220  | 1.262  | 0.145  | 0.014  | 0.008  | 0.012  | 0.021  | 0.019  |  |
| 12     | 0.026                      | 0.038  | 0.029  | 0.119  | 1.344  | 1.333  | 0.108  | 0.013  | 0.008  | 0.012  | 0.027  | 0.021  |  |
| 13     | 0.026                      | 0.038  | 0.029  | 0.116  | 1.497  | 1.245  | 0.087  | 0.013  | 0.009  | 0.012  | 0.026  | 0.023  |  |
| 14     | 0.026                      | 0.038  | 0.030  | 0.123  | 1.309  | 1.235  | 0.073  | 0.014  | 0.008  | 0.011  | 0.026  | 0.023  |  |
| 15     | 0.068                      | 0.037  | 0.083  | 0.158  | 1.163  | 1.170  | 0.065  | 0.013  | 0.007  | 0.011  | 0.024  | 0.024  |  |
| 16     | 0.281                      | 0.036  | 0.147  | 0.258  | 1.019  | 1.136  | 0.057  | 0.011  | 0.006  | 0.011  | 0.021  | 0.024  |  |
| 17     | 0.261                      | 0.035  | 0.271  | 0.508  | 0.879  | 1.040  | 0.050  | 0.010  | 0.005  | 0.012  | 0.021  | 0.023  |  |
| 18     | 0.181                      | 0.035  | 0.308  | 0.884  | 0.758  | 0.980  | 0.050  | 0.010  | 0.005  | 0.012  | 0.013  | 0.023  |  |
| 19     | 0.185                      | 0.035  | 0.210  | 0.864  | 0.700  | 0.899  | 0.045  | 0.010  | 0.005  | 0.012  | 0.018  | 0.022  |  |
| 20     | 0.139                      | 0.035  | 0.162  | 0.694  | 0.683  | 0.863  | 0.040  | 0.010  | 0.005  | 0.013  | 0.023  | 0.025  |  |
| 21     | 0.107                      | 0.034  | 0.138  | 0.826  | 0.746  | 0.800  | 0.037  | 0.009  | 0.006  | 0.013  | 0.029  | 0.027  |  |
| 22     | 0.089                      | 0.034  | 0.120  | 1.048  | 0.967  | 0.767  | 0.034  | 0.008  | 0.006  | 0.013  | 0.023  | 0.026  |  |
| 23     | 0.078                      | 0.033  | 0.110  | 1.292  | 1.364  | 0.716  | 0.032  | 0.008  | 0.006  | 0.013  | 0.017  | 0.026  |  |
| 24     | 0.072                      | 0.033  | 0.099  | 1.039  | 1.561  | 0.634  | 0.029  | 0.007  | 0.005  | 0.015  | 0.020  | 0.026  |  |
| 25     | 0.068                      | 0.032  | 0.097  | 0.808  | 1.815  | 0.529  | 0.028  | 0.006  | 0.005  | 0.028  | 0.021  | 0.026  |  |
| 26     | 0.062                      | 0.033  | 0.099  | 0.646  | 2.264  | 0.466  | 0.025  | 0.006  | 0.004  | 0.021  | 0.020  | 0.026  |  |
| 27     | 0.058                      | 0.032  | 0.124  | 0.558  | 2.341  | 0.421  | 0.024  | 0.006  | 0.006  | 0.020  | 0.019  | 0.026  |  |
| 28     | 0.057                      | 0.032  | 0.141  | 0.601  | 2.048  | 0.379  | 0.022  | 0.006  | 0.007  | 0.031  | 0.021  | 0.025  |  |
| 29     | 0.057                      | 0.0    | 0.175  | 0.952  | 1.925  | 0.346  | 0.022  | 0.006  | 0.006  | 0.062  | 0.021  | 0.026  |  |
| 30     | 0.056                      | 0.0    | 0.416  | 1.480  | 1.721  | 0.303  | 0.021  | 0.006  | 0.006  | 0.029  | 0.020  | 0.026  |  |
| 31     | 0.054                      | 0.0    | 0.276  | 0.0    | 1.686  | 0.0  | 0.018  | 0.006  | 0.006  | 0.025  | 0.0    | 0.025  |  |
| MEAN   | 0.0723                     | 0.0395 | 0.1105 | 0.4880 | 1.6766 | 1.0887   | 0.0956 | 0.0120 | 0.0061 | 0.0157 | 0.0212 | 0.0231 |  |
| INCHES | 0.534                      | 0.263  | 0.816  | 3.484  | 12.371 | 7.774  | 0.706  | 0.089  | 0.044  | 0.116  | 0.152  | 0.171  |  |
| STA AV | 0.422                      | 0.325  | 0.701  | 2.639  | 10.556 | 4.615  | 0.462  | 0.084  | 0.061  | 0.128  | 0.236  | 0.198  |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.238017. STA AV based on 9 yr (1966-74) record period.

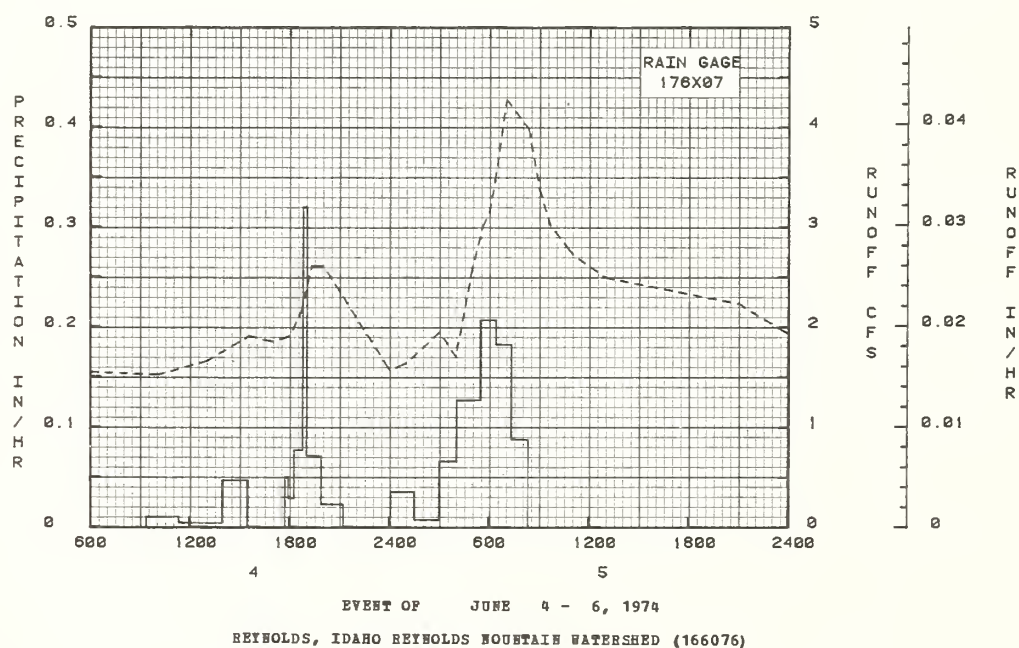
| 1974  |                  |          | REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |                  |           |          |        |        |       |          |
|---|------------------|----------|--|------------------|-----------|----------|--------|--------|-------|----------|
| SELECTED RUNOFF EVENT                                       |                  |          |  |                  |           |          |        |        |       |          |
| ANTHONY CONDITIONS  |                  |          | RAINFALL   |                  |           | RUNOFF   |        |        |       |          |
| Date  | Rainfall         | Runoff   | Date   | Time             | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day  | (inches)         | (inches) | Mo-Day   | of Day           | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MAY 7 - 8, 1974                                    |                  |          |  |                  |           |          |        |        |       |          |
| 5- 7  | RG 176X07<br>0.0 | 0.191    | 5- 7   | RG 176X07<br>900 | 0.0       | 0.0      | 5- 7   | 10 10  | 1.703 | 0.0      |
|   |                  |          |  |                  |           |          |        | 1100   | 1.917 | 0.0149   |
|   |                  |          |  |                  |           |          |        | 1145   | 2.490 | 0.0313   |
|   |                  |          |  |                  |           |          |        | 1255   | 2.979 | 0.0630   |
|   |                  |          |  |                  |           |          |        | 1400   | 3.598 | 0.0983   |
| WATERSHED CONDITIONS:<br>The event is strictly<br>snowmelt. |                  |          |  |                  |           |          |        | 1510   | 3.913 | 0.1418   |
|   |                  |          |  |                  |           |          |        | 1610   | 4.330 | 0.1826   |
|   |                  |          |  |                  |           |          |        | 1620   | 3.913 | 0.1894   |
|   |                  |          |  |                  |           |          |        | 1945   | 3.357 | 0.3126   |
|   |                  |          |  |                  |           |          |        | 2045   | 3.097 | 0.3446   |
|   |                  |          |  |                  |           |          |        | 2225   | 2.764 | 0.3931   |
|   |                  |          |  |                  |           |          | 5- 8   | 2400   | 2.596 | 0.4352   |
|   |                  |          |  |                  |           |          |        | 200    | 2.490 | 0.4856   |
|   |                  |          |  |                  |           |          |        | 600    | 2.158 | 0.5778   |

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



| 1974 SELECTED RUNOFF EVENT  |                  |          | REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076) |           |           |          |        |        |       |          |        |
|---|------------------|----------|--|-----------|-----------|----------|--------|--------|-------|----------|--------|
| ANTECEDENT CONDITIONS   |                  |          | RAINFALL   |           |           |          | RUNOFF |        |       |          |        |
| Date  | Rainfall         | Runoff   | Date   | Time      | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |        |
| No-Day  | (inches)         | (inches) | No-Day   | of Day    | (in/hr)   | (inches) | No-Day | of Day | (cfs) | (inches) |        |
| EVENT OF JUNE 4 - 6, 1974   |                  |          |  |           |           |          |        |        |       |          |        |
| 5- 4  | RG 176X07<br>0.0 | 0.099    | 6- 4   | RG 176X07 |           |          |        |        |       |          |        |
|   |                  |          |  | 925       | 0.0       | 0.0      | 6- 4   | 600    | 1.545 | 0.0      |        |
|   |                  |          |  | 1122      | 0.0103    | 0.02     |        | 1000   | 1.522 | 0.0609   |        |
|   |                  |          |  | 1359      | 0.0038    | 0.03     |        | 1300   | 1.664 | 0.1082   |        |
|   |                  |          |  | 1529      | 0.0467    | 0.10     |        | 1532   | 1.907 | 0.1531   |        |
|   |                  |          |  | 1745      | 0.0       | 0.10     |        | 1700   | 1.849 | 0.1804   |        |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt at the upper<br>elevations. |                  |          |  | 1757      | 0.0500    | 0.11     |        | 1800   | 1.907 | 0.1990   |        |
|   |                  |          |  | 1818      | 0.0286    | 0.12     |        | 1840   | 2.136 | 0.2124   |        |
|   |                  |          |  | 1849      | 0.0774    | 0.16     |        | 1920   | 2.615 | 0.2281   |        |
|   |                  |          |  | 1904      | 0.3200    | 0.24     |        | 2000   | 2.615 | 0.2454   |        |
|   |                  |          |  | 1955      | 0.0706    | 0.30     |        | 2400   | 1.569 | 0.3283   |        |
|   |                  |          |  | 6- 5      | 2115      | 0.0225   | 0.33   | 6- 5   | 100   | 1.640    | 0.3442 |
|   |                  |          |  |           | 6         | 0.0      | 0.33   |        | 300   | 1.949    | 0.3798 |
|   |                  |          |  |           | 131       | 0.0353   | 0.38   |        | 400   | 1.698    | 0.3979 |
|   |                  |          |  |           | 300       | 0.0067   | 0.39   |        | 500   | 2.615    | 0.4193 |
|   |                  |          |  |           | 404       | 0.0656   | 0.46   |        | 536   | 3.014    | 0.4360 |
|   |                  |          |  | 529       | 0.1271    | 0.64     |        | 600    | 3.154 | 0.4482   |        |
|   |                  |          |  | 624       | 0.2073    | 0.83     |        | 620    | 3.469 | 0.4592   |        |
|   |                  |          |  | 720       | 0.1821    | 1.00     |        | 700    | 4.271 | 0.4848   |        |
|   |                  |          |  | 822       | 0.0871    | 1.09     |        | 820    | 3.978 | 0.5393   |        |
|   |                  |          |  |           |           |          |        | 900    | 3.372 | 0.5636   |        |
|   |                  |          |  |           |           |          |        | 940    | 3.014 | 0.5847   |        |
|   |                  |          |  |           |           |          |        | 1100   | 2.718 | 0.6226   |        |
|   |                  |          |  |           |           |          |        | 1300   | 2.490 | 0.6742   |        |
|   |                  |          |  |           |           |          |        | 2100   | 2.233 | 0.8616   |        |
|   |                  |          |  |           |           |          |        | 2400   | 1.933 | 0.9235   |        |
|   |                  |          |  |           |           |          | 6- 6   | 600    | 1.679 | 1.0310   |        |

NOTES: To convert CFS to IN/HR, multiply by 0.009917





## REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Hampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 8 min. 53 sec. N.; Long. 116 deg. 44 min. 14 sec. W.

AREA: 33.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               | REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |             |             |           |       |           |       |           |       |           |       |
|---|---|------------------------|-------------|--------------|--------------|---------------|--|-------------|-------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
|   |   | Jan                    | Feb         | Mar          | Apr          | May           | Jun  | Jul         | Aug         | Sep       | Oct   | Nov       | Dec   | Annual    |       |           |       |
| 1974  | P | 1.22                   | 0.19        | 3.05         | 0.23         | 0.25          | 0.30   | 0.52        | 0.15        | 0.0       | 2.19  | 0.82      | 1.47  | 10.39     |       |           |       |
|   | Q | 0.063                  | 0.001       | 0.188        | 0.006        | 0.0           | 0.0  | 0.0         | 0.0         | 0.0       | 0.0   | 0.0       | 0.0   | 0.258     |       |           |       |
| STA AV  | P | 2.29                   | 0.82        | 1.69         | 1.14         | 0.75          | 1.52   | 0.31        | 0.72        | 0.93      | 1.48  | 1.62      | 2.00  | 15.27     |       |           |       |
|   | Q | 0.143                  | 0.035       | 0.115        | 0.006        | 0.0           | 0.002  | 0.0         | 0.0         | 0.0       | 0.0   | 0.0       | 0.001 | 0.303     |       |           |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |  |             |             |           |       |           |       |           |       |           |       |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date   | 2 Days Date | 8 Days Date |           |       |           |       |           |       |           |       |
|   |   | Date                   | Vol.        | Date         | Vol.         | Date          | Vol.   | Date        | Vol.        | Date      | Vol.  | Date      | Vol.  | Date      | Vol.  |           |       |
| 1974  |   | 3-15                   | 0.012       | 3-15         | 0.011        | 3-15          | 0.020  | 3-15        | 0.046       | 3-15      | 0.056 | 3-14      | 0.072 | 3-14      | 0.092 | 3-11      | 0.162 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |  |             |             |           |       |           |       |           |       |           |       |
|   |   | 1-22 1972              | 0.063       | 1-22 1972    | 0.053        | 1-22 1972     | 0.097  | 1-22 1972   | 0.205       | 1-22 1972 | 0.291 | 1-22 1972 | 0.328 | 1-20 1972 | 0.379 | 1-18 1972 | 0.518 |

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, and little sagebrush. 90% of the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: 'Computed Actual' amounts from one rain gage. Station average precipitation amounts are based on 1968-74 record period. Station average runoff amounts are based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

| 1974 DAILY AIE TEMPERATURE (degrees F) |      |     |      |     |      |     |      |     |      |     |      |     |      | REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |      |     |      |     |      |     |      |     |      |     |  |  |  |
|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|--|------|-----|------|-----|------|-----|------|-----|------|-----|--|--|--|
| Day                                    | Jau  |     | Feb  |     | Mar  |     | Apr  |     | May  |     | Jun  |     | Jul  |  | Aug  |     | Sep  |     | Oct  |     | Nov  |     | Dec  |     |  |  |  |
|  | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min | max  | min  | max  | min | max  | min | max  | min | max  | min | max  | min |  |  |  |
| 1                                      | 13   | 5   | 33   | 25  | 45   | 28  | 43   | 26  | 59   | 35  | 69   | 47  | 74   | 56   | 87   | 66  | 76   | 58  | 68   | 53  | 34   | 30  | 36   | 25  |  |  |  |
| 2                                      | 10   | 5   | 34   | 24  | 28   | 23  | 38   | 32  | 49   | 29  | 75   | 55  | 78   | 44   | 77   | 61  | 72   | 50  | 71   | 49  | 37   | 30  | 39   | 29  |  |  |  |
| 3                                      | 12   | 3   | 44   | 35  | 23   | 19  | 39   | 28  | 57   | 35  | 70   | 50  | 78   | 50   | 80   | 57  | 80   | 56  | 59   | 42  | 38   | 28  | 42   | 34  |  |  |  |
| 4                                      | 11   | 1   | 39   | 21  | 32   | 19  | 46   | 25  | 63   | 40  | 57   | 47  | 83   | 60   | 85   | 62  | 80   | 58  | 51   | 33  | 40   | 29  | 44   | 33  |  |  |  |
| 5                                      | 9    | 2   | 25   | 16  | 40   | 31  | 51   | 33  | 67   | 47  | 57   | 43  | 74   | 55   | 86   | 67  | 74   | 54  | 45   | 28  | 43   | 33  | 38   | 29  |  |  |  |
| 6                                      | 16   | 2   | 30   | 13  | 33   | 20  | 42   | 30  | 66   | 51  | 60   | 41  | 67   | 51   | 67   | 57  | 80   | 55  | 55   | 31  | 49   | 36  | 39   | 31  |  |  |  |
| 7                                      | 21   | 8   | 30   | 21  | 26   | 19  | 49   | 28  | 72   | 51  | 49   | 32  | 72   | 50   | 74   | 53  | 77   | 61  | 63   | 44  | 50   | 34  | 38   | 27  |  |  |  |
| 8                                      | 11   | 2   | 39   | 24  | 25   | 17  | 54   | 36  | 69   | 55  | 63   | 35  | 63   | 49   | 68   | 46  | 78   | 61  | 62   | 44  | 36   | 26  | 37   | 26  |  |  |  |
| 9                                      | 13   | 4   | 38   | 27  | 36   | 5   | 48   | 29  | 58   | 41  | 73   | 47  | 58   | 45   | 69   | 47  | 77   | 55  | 51   | 40  | 38   | 27  | 39   | 28  |  |  |  |
| 10                                     | 15   | 8   | 36   | 26  | 40   | 24  | 44   | 31  | 51   | 35  | 73   | 51  | 54   | 44   | 77   | 52  | 65   | 44  | 55   | 40  | 40   | 31  | 40   | 28  |  |  |  |
| 11                                     | 19   | 10  | 43   | 22  | 41   | 33  | 50   | 36  | 63   | 35  | 81   | 57  | 63   | 41   | 81   | 55  | 57   | 38  | 53   | 39  | 46   | 32  | 39   | 33  |  |  |  |
| 12                                     | 36   | 11  | 41   | 28  | 43   | 28  | 34   | 30  | 50   | 29  | 87   | 67  | 71   | 47   | 79   | 58  | 55   | 37  | 58   | 42  | 57   | 46  | 39   | 30  |  |  |  |
| 13                                     | 37   | 32  | 36   | 27  | 31   | 23  | 44   | 26  | 44   | 25  | 82   | 64  | 78   | 57   | 71   | 50  | 59   | 40  | 62   | 45  | 55   | 41  | 29   | 26  |  |  |  |
| 14                                     | 45   | 38  | 35   | 25  | 40   | 25  | 53   | 25  | 52   | 35  | 87   | 65  | 84   | 65   | 63   | 44  | 68   | 48  | 59   | 44  | 51   | 41  | 36   | 29  |  |  |  |
| 15                                     | 49   | 44  | 43   | 31  | 47   | 40  | 55   | 38  | 41   | 27  | 84   | 65  | 85   | 59   | 73   | 49  | 73   | 54  | 63   | 48  | 45   | 34  | 40   | 30  |  |  |  |
| 16                                     | 50   | 35  | 38   | 27  | 56   | 39  | 54   | 35  | 38   | 27  | 90   | 61  | 82   | 53   | 80   | 55  | 75   | 55  | 67   | 53  | 44   | 33  | 45   | 37  |  |  |  |
| 17                                     | 39   | 31  | 31   | 25  | 47   | 30  | 59   | 30  | 43   | 27  | 90   | 70  | 79   | 60   | 82   | 58  | 76   | 58  | 69   | 53  | 54   | 30  | 38   | 28  |  |  |  |
| 18                                     | 44   | 31  | 37   | 26  | 42   | 25  | 59   | 39  | 47   | 29  | 91   | 73  | 85   | 63   | 83   | 57  | 75   | 55  | 68   | 50  | 38   | 30  | 35   | 26  |  |  |  |
| 19                                     | 39   | 29  | 36   | 23  | 41   | 22  | 49   | 30  | 49   | 27  | 87   | 55  | 85   | 65   | 57   | 45  | 74   | 56  | 65   | 51  | 39   | 30  | 35   | 28  |  |  |  |
| 20                                     | 29   | 18  | 31   | 22  | 34   | 16  | 50   | 30  | 52   | 33  | 70   | 49  | 85   | 63   | 61   | 41  | 74   | 54  | 63   | 31  | 51   | 31  | 41   | 33  |  |  |  |
| 21                                     | 24   | 16  | 33   | 23  | 46   | 25  | 58   | 34  | 57   | 35  | 73   | 53  | 84   | 66   | 74   | 50  | 73   | 54  | 33   | 28  | 50   | 39  | 44   | 20  |  |  |  |
| 22                                     | 32   | 22  | 27   | 16  | 44   | 29  | 64   | 50  | 62   | 45  | 82   | 57  | 83   | 64   | 73   | 60  | 73   | 54  | 38   | 28  | 38   | 23  | 23   | 18  |  |  |  |
| 23                                     | 35   | 29  | 29   | 15  | 41   | 23  | 62   | 41  | 63   | 47  | 82   | 64  | 78   | 61   | 76   | 59  | 73   | 58  | 38   | 26  | 41   | 30  | 22   | 15  |  |  |  |
| 24                                     | 39   | 33  | 33   | 21  | 54   | 33  | 50   | 32  | 63   | 47  | 83   | 65  | 82   | 59   | 76   | 60  | 74   | 52  | 42   | 30  | 47   | 36  | 29   | 18  |  |  |  |
| 25                                     | 37   | 24  | 46   | 25  | 49   | 37  | 41   | 31  | 72   | 50  | 80   | 52  | 80   | 59   | 81   | 60  | 76   | 58  | 57   | 42  | 47   | 28  | 30   | 21  |  |  |  |
| 26                                     | 27   | 20  | 43   | 34  | 48   | 38  | 45   | 27  | 75   | 53  | 67   | 43  | 84   | 56   | 83   | 62  | 70   | 41  | 55   | 42  | 35   | 24  | 36   | 14  |  |  |  |
| 27                                     | 31   | 23  | 38   | 29  | 47   | 37  | 41   | 28  | 64   | 47  | 77   | 52  | 85   | 63   | 84   | 65  | 58   | 35  | 53   | 44  | 38   | 25  | 41   | 21  |  |  |  |
| 28                                     | 31   | 25  | 50   | 40  | 43   | 36  | 51   | 33  | 61   | 39  | 75   | 53  | 87   | 62   | 83   | 64  | 68   | 47  | 44   | 37  | 30   | 23  | 21   | 13  |  |  |  |
| 29                                     | 38   | 30  |      |     | 45   | 33  | 57   | 34  | 60   | 43  | 78   | 51  | 83   | 61   | 81   | 62  | 70   | 54  | 44   | 37  | 33   | 23  | 25   | 10  |  |  |  |
| 30                                     | 40   | 35  |      |     | 46   | 30  | 69   | 44  | 55   | 35  | 86   | 62  | 81   | 55   | 81   | 65  | 69   | 56  | 45   | 36  | 35   | 25  | 26   | 17  |  |  |  |
| 31                                     | 37   | 31  |      |     | 43   | 33  |      |     | 61   | 41  |      |     | 85   | 65   | 79   | 62  |      |     | 39   | 35  |      |     | 27   | 13  |  |  |  |
| AV.                                    | 29   | 20  | 36   | 25  | 41   | 27  | 50   | 32  | 58   | 39  | 76   | 54  | 78   | 56   | 76   | 56  | 72   | 52  | 55   | 40  | 43   | 31  | 35   | 25  |  |  |  |
| HEAR                                   | 24.2 |     | 30.6 |     | 33.9 |     | 41.2 |     | 48.1 |     | 65.1 |     | 67.1 |  | 66.5 |     | 61.8 |     | 47.5 |     | 36.8 |     | 30.1 |     |  |  |  |
| STA AV                                 | 33   | 23  | 39   | 27  | 43   | 29  | 47   | 31  | 61   | 41  | 69   | 50  | 81   | 60   | 79   | 58  | 67   | 49  | 53   | 37  | 41   | 29  | 33   | 22  |  |  |  |

NOTES: Temperature data taken from hygrothermograph record at Station 127X07. STA AV based on 8 yr (1967-74) record period.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1  | 0.0  | 0.0  | 0.61 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  |
| 2  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5  | 0.05 | 0.0  | 0.0  | 0.09 | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6  | 0.01 | 0.0  | 0.76 | 0.0  | 0.0  | 0.0  | 0.15 | 0.15 | 0.0  | 0.0  | 0.0  | 0.02 |
| 7  | 0.0  | 0.0  | 0.46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  |
| 8  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.03 | 0.01 | 0.0  |
| 9  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.45 | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.01 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |
| 12   | 0.18 | 0.0  | 0.13 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 |
| 13   | 0.06 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14   | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 15   | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 16   | 0.06 | 0.02 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17   | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.05 |
| 18   | 0.40 | 0.02 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  |
| 19   | 0.05 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 20   | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.35 |
| 21   | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.07 |
| 22   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  |
| 23   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  |
| 25   | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.05 |
| 26   | 0.09 | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 27   | 0.03 | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.43 |
| 28   | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.59 | 0.0  | 0.05 |
| 29   | 0.0  | 0.0  | 0.26 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 |
| 31   | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| TOTAL  | 1.22 | 0.19 | 3.05 | 0.23 | 0.25 | 0.30 | 0.52 | 0.15 | 0.0  | 2.19 | 0.82 | 1.47 |
| STA AV   | 2.29 | 0.82 | 1.69 | 1.14 | 0.75 | 1.52 | 0.31 | 0.72 | 0.93 | 1.48 | 1.62 | 2.00 |

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127107. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period.

| 1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |      |      |      |      |      |      |      |      |     |      |      |      |
|--|------|------|------|------|------|------|------|------|-----|------|------|------|
| Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |
| 1  | 0.0  | 0.0  | 0.45 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.02 | 0.0  |
| 2  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.0  |
| 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5  | 0.05 | 0.0  | 0.0  | 0.09 | 0.0  | 0.22 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 6  | 0.01 | 0.0  | 0.52 | 0.0  | 0.0  | 0.0  | 0.13 | 0.15 | 0.0 | 0.0  | 0.0  | 0.02 |
| 7  | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.24 | 0.0  |
| 8  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0 | 0.03 | 0.01 | 0.0  |
| 9  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.20 | 0.0  | 0.0 | 0.39 | 0.0  | 0.0  |
| 10   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 11   | 0.0  | 0.0  | 0.01 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |
| 12   | 0.10 | 0.0  | 0.07 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.14 |
| 13   | 0.03 | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 14   | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |
| 15   | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |
| 16   | 0.02 | 0.02 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 17   | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.01 | 0.03 |
| 18   | 0.40 | 0.01 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.27 | 0.0  |
| 19   | 0.04 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 20   | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.02 | 0.0  | 0.18 |
| 21   | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 0.04 |
| 22   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.02 | 0.0  | 0.0  |
| 23   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.22 | 0.0  | 0.0  |
| 24   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.15 | 0.0  | 0.0  |
| 25   | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.02 |
| 26   | 0.03 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |
| 27   | 0.01 | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.03 | 0.18 |
| 28   | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.55 | 0.0  | 0.02 |
| 29   | 0.0  | 0.0  | 0.16 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0 | 0.52 | 0.0  | 0.0  |
| 30   | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.03 |
| 31   | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| TOTAL  | 0.83 | 0.15 | 2.11 | 0.23 | 0.25 | 0.30 | 0.47 | 0.15 | 0.0 | 1.94 | 0.66 | 0.74 |
| STA AV   |      |      |      |      |      |      |      |      |     |      |      |      |

NOTES: Values are amounts from unshielded recording gage 127407. STA AV do not apply to unshielded rain gage records.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |      |      |     |      |      |      |  |
|--------|------------------------------|------|------|------|------|--|------|------|-----|------|------|------|--|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov  | Dec  |  |
| 1      | 0.0                          | 0.0  | 0.53 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.07 | 0.0  |  |
| 2      | 0.0                          | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.08 | 0.0  |  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.08   | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 5      | 0.05                         | 0.0  | 0.0  | 0.09 | 0.0  | 0.22   | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 6      | 0.01                         | 0.0  | 0.64 | 0.0  | 0.0  | 0.0  | 0.14 | 0.15 | 0.0 | 0.0  | 0.0  | 0.02 |  |
| 7      | 0.0                          | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.24 | 0.0  |  |
| 8      | 0.0                          | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0 | 0.03 | 0.01 | 0.0  |  |
| 9      | 0.0                          | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.21 | 0.0  | 0.0 | 0.43 | 0.0  | 0.0  |  |
| 10     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 11     | 0.0                          | 0.0  | 0.01 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.06 |  |
| 12     | 0.15                         | 0.0  | 0.10 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.19 |  |
| 13     | 0.05                         | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 14     | 0.0                          | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |  |
| 15     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.02 |  |
| 16     | 0.05                         | 0.02 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.02 | 0.04 |  |
| 18     | 0.40                         | 0.01 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.29 | 0.0  |  |
| 19     | 0.05                         | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.07                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.02 | 0.0  | 0.26 |  |
| 21     | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.04 | 0.0  | 0.05 |  |
| 22     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.02 | 0.0  | 0.0  |  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.25 | 0.0  | 0.0  |  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.18 | 0.0  | 0.0  |  |
| 25     | 0.09                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.04 | 0.04 |  |
| 26     | 0.06                         | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.01 |  |
| 27     | 0.02                         | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.03 | 0.29 |  |
| 28     | 0.0                          | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.57 | 0.0  | 0.03 |  |
| 29     | 0.0                          | 0.0  | 0.21 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0 | 0.55 | 0.0  | 0.0  |  |
| 30     | 0.0                          | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.05 |  |
| 31     | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |  |
| TOTAL  | 1.04                         | 0.17 | 2.59 | 0.23 | 0.25 | 0.30   | 0.50 | 0.15 | 0.0 | 2.09 | 0.78 | 1.07 |  |
| STA AV |                              |      |      |      |      |  |      |      |     |      |      |      |  |

NOTES: Values are amounts from shielded recording gage 127507. STA AV do not apply to shielded rain gage records.

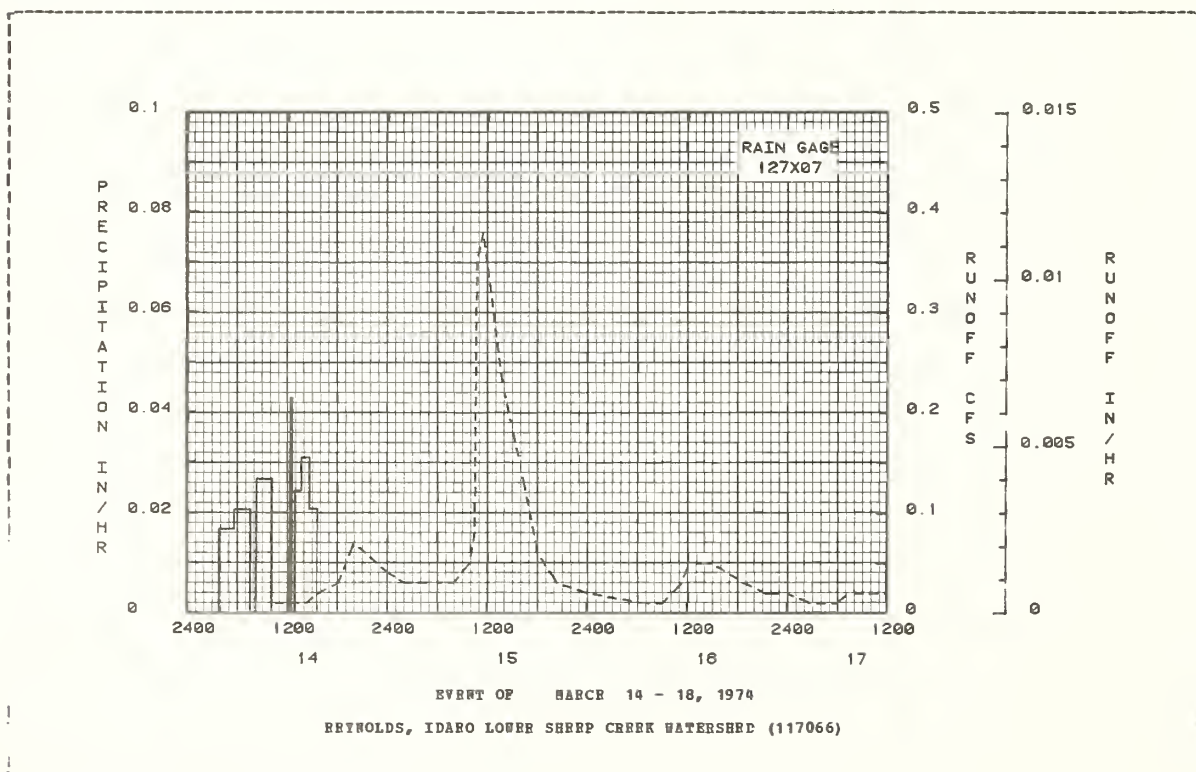
| 1974   | MEAN DAILY DISCHARGE (cfs) |       |        |        |     | REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |     |     |     |     |     |       |  |
|--------|----------------------------|-------|--------|--------|-----|--|-----|-----|-----|-----|-----|-------|--|
| Day    | Jan                        | Feb   | Mar    | Apr    | May | Jun  | Jul | Aug | Sep | Oct | Nov | Dec   |  |
| 1      | 0.0                        | 0.001 | 0.005  | 0.005  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 2      | 0.0                        | 0.0   | 0.002  | 0.003  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 3      | 0.0                        | 0.0   | 0.001  | 0.001  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 4      | 0.0                        | 0.0   | 0.001  | 0.0 T  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 5      | 0.0                        | 0.0   | 0.003  | 0.0 T  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 6      | 0.0                        | 0.0   | 0.006  | 0.0 T  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 7      | 0.0                        | 0.0   | 0.003  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 8      | 0.0                        | 0.0   | 0.002  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 9      | 0.0                        | 0.0   | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 10     | 0.0                        | 0.0   | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 11     | 0.0                        | 0.0   | 0.003  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 12     | 0.0                        | 0.0   | 0.040  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 13     | 0.002                      | 0.0   | 0.015  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 14     | 0.040                      | 0.0   | 0.021  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 15     | 0.021                      | 0.0   | 0.095  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 16     | 0.003                      | 0.0   | 0.026  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 17     | 0.002                      | 0.0   | 0.016  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 18     | 0.010                      | 0.0   | 0.006  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 19     | 0.005                      | 0.0   | 0.004  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 20     | 0.002                      | 0.0   | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 21     | 0.001                      | 0.0   | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 22     | 0.0 T                      | 0.0   | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 23     | 0.0 T                      | 0.0   | 0.0 T  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 24     | 0.001                      | 0.0   | 0.0    | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 25     | 0.0 T                      | 0.0   | 0.0 T  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 26     | 0.0 T                      | 0.0   | 0.0    | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 27     | 0.0 T                      | 0.0   | 0.0 T  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 28     | 0.0                        | 0.0 T | 0.001  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 29     | 0.0                        | 0.0   | 0.002  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 30     | 0.0 T                      | 0.0   | 0.002  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| 31     | 0.0 T                      | 0.0   | 0.0 T  | 0.0    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| MEAN   | 0.0028                     | 0.0   | 0.0084 | 0.0003 | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| INCHES | 0.063                      | 0.001 | 0.188  | 0.006  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |  |
| STA AV | 0.143                      | 0.035 | 0.115  | 0.006  | 0.0 | 0.002  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.001 |  |

NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV based on 8 yr (1967-74) record period.



| 1974 SELECTED RUNOFF EVENT   |          |          | REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066) |        |           |          |        |        |       |          |
|--|----------|----------|--|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL   |        |           | RUNOFF   |        |        |       |          |
| Date   | Rainfall | Runoff   | Date   | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MARCH 14 - 18, 1974   |          |          |  |        |           |          |        |        |       |          |
| RG 127X07  |          |          | RG 127X07  |        |           |          |        |        |       |          |
| 3-14   | 0.0      | 0.002    | 3-14   | 348    | 0.0       | 0.0      | 3-14   | 1040   | 0.006 | 0.0      |
|  |          |          |  | 535    | 0.0168    | 0.03     |        | 1420   | 0.013 | 0.0010   |
|  |          |          |  | 731    | 0.0207    | 0.07     |        | 1550   | 0.023 | 0.0018   |
|  |          |          |  | 815    | 0.0       | 0.07     |        | 1810   | 0.032 | 0.0037   |
|  |          |          |  | 1007   | 0.0268    | 0.12     |        | 2000   | 0.068 | 0.0065   |
| WATERSHED CONDITIONS:<br>The event is combined rain<br>and snowmelt. |          |          |  | 1217   | 0.0       | 0.12     |        | 2400   | 0.042 | 0.0132   |
|  |          |          |  | 1231   | 0.0429    | 0.13     | 3-15   | 200    | 0.034 | 0.0155   |
|  |          |          |  | 1251   | 0.0       | 0.13     |        | 800    | 0.032 | 0.0215   |
|  |          |          |  | 1340   | 0.0245    | 0.15     |        | 955    | 0.045 | 0.0237   |
|  |          |          |  | 1438   | 0.0310    | 0.18     |        | 1030   | 0.084 | 0.0248   |
|  |          |          |  | 1536   | 0.0207    | 0.20     |        | 1040   | 0.351 | 0.0259   |
|  |          |          |  |        |           |          |        | 1125   | 0.382 | 0.0342   |
|  |          |          |  |        |           |          |        | 1345   | 0.233 | 0.0557   |
|  |          |          |  |        |           |          |        | 1625   | 0.129 | 0.0702   |
|  |          |          |  |        |           |          |        | 1805   | 0.064 | 0.0751   |
|  |          |          |  |        |           |          |        | 2025   | 0.032 | 0.0785   |
|  |          |          |  |        |           |          |        | 2400   | 0.021 | 0.0814   |
|  |          |          |  |        |           |          | 3-16   | 635    | 0.012 | 0.0847   |
|  |          |          |  |        |           |          |        | 905    | 0.013 | 0.0856   |
|  |          |          |  |        |           |          |        | 1120   | 0.027 | 0.0870   |
|  |          |          |  |        |           |          |        | 1220   | 0.054 | 0.0882   |
|  |          |          |  |        |           |          |        | 1455   | 0.050 | 0.0922   |
|  |          |          |  |        |           |          |        | 1900   | 0.028 | 0.0970   |
|  |          |          |  |        |           |          |        | 2125   | 0.021 | 0.0988   |
|  |          |          |  |        |           |          |        | 2305   | 0.022 | 0.0999   |
|  |          |          |  |        |           |          | 3-17   | 2400   | 0.020 | 0.1004   |
|  |          |          |  |        |           |          |        | 250    | 0.014 | 0.1019   |
|  |          |          |  |        |           |          |        | 600    | 0.014 | 0.1032   |
|  |          |          |  |        |           |          |        | 720    | 0.015 | 0.1038   |
|  |          |          |  |        |           |          |        | 1210   | 0.016 | 0.1061   |
|  |          |          |  |        |           |          |        | 1540   | 0.025 | 0.1082   |
|  |          |          |  |        |           |          |        | 1940   | 0.014 | 0.1105   |
|  |          |          |  |        |           |          |        | 2400   | 0.007 | 0.1119   |
|  |          |          |  |        |           |          | 3-18   | 640    | 0.004 | 0.1131   |

NOTES: To convert CFS to IN/DAY, multiply by 0.030053.





## CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Carter, Beckham, and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW 1/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min. N., long. 98 deg. 14 min. W.; North edge of Anadarko, Okla., 35 feet upstream from U.S. Highway 281 bridge over Washita River; at river mile 305.2, approximately 8.1 miles upstream from confluence of Sngar Creek.

AREA: 2339800.00 acres 3656.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |       |       |       |       |       | CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|-------|-------|---|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual  |       |
| 1974  | Q | 0.039             | 0.038 | 0.079  | 0.050 | 0.189   | 0.052 | 0.008                                     | 0.126 | 0.137 | 0.053 | 0.268 | 0.068 | 1.107   |       |
| STA AV  | Q | 0.045             | 0.037 | 0.058  | 0.082 | 0.130   | 0.123 | 0.048                                     | 0.044 | 0.109 | 0.081 | 0.093 | 0.048 | 0.898   |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |       |       |   |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days  |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date  | Vol.  |
| 1974  |   | 11- 6             | 0.001 | 11- 5  | 0.001 | 11- 5   | 0.003 | 11- 5                                     | 0.008 | 11- 5 | 0.016 | 11- 5 | 0.031 | 11- 4   | 0.059 |
|   |   |                   |       |        |       |         |       |   |       |       |       |       |       |   | 0.137 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |       |       |   |       |
|   |   | 9-23              | 0.004 | 9-23   | 0.004 | 9-23    | 0.009 | 9-23                                      | 0.026 | 9-23  | 0.052 | 9-23  | 0.100 | 9-23  | 0.188 |
|   |   | 1965              |       | 1965   |       | 1965    |       | 1965                                      |       | 1965  |       | 1965  |       | 1965  | 0.384 |

NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 MEAN DAILY DISCHARGE (cfs) |        |        |        |        |        |        |       |        |        |        |        |        |  | CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO |  |
|---------------------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--|---|--|
| Day                             | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |  |   |  |
| 1                               | 130.1  | 119.8  | 106.9  | 140.8  | 714.5  | 232.9  | 58.1  | 23.9   | 508.2  | 294.9  | 668.4  | 243.5  |  |   |  |
| 2                               | 123.0  | 119.4  | 110.6  | 139.7  | 1611.0 | 188.1  | 53.7  | 26.6   | 377.6  | 226.8  | 896.7  | 233.3  |  |   |  |
| 3                               | 117.4  | 117.7  | 109.6  | 136.7  | 2554.1 | 178.4  | 48.6  | 31.7   | 321.8  | 196.2  | 859.7  | 228.5  |  |   |  |
| 4                               | 118.6  | 119.4  | 111.6  | 131.2  | 2710.5 | 174.2  | 44.8  | 36.5   | 305.5  | 176.3  | 2398.0 | 225.2  |  |   |  |
| 5                               | 114.3  | 119.4  | 113.9  | 126.2  | 1502.6 | 165.9  | 41.6  | 41.0   | 837.7  | 165.9  | 2972.0 | 225.2  |  |   |  |
| 6                               | 113.9  | 117.0  | 113.9  | 125.1  | 856.0  | 164.3  | 39.3  | 42.9   | 533.6  | 162.3  | 2783.4 | 228.5  |  |   |  |
| 7                               | 113.6  | 114.6  | 113.3  | 123.3  | 634.6  | 174.6  | 35.3  | 43.3   | 391.9  | 161.9  | 1549.5 | 231.4  |  |   |  |
| 8                               | 122.6  | 113.9  | 123.4  | 124.7  | 511.8  | 164.8  | 33.4  | 44.2   | 324.2  | 161.5  | 1139.9 | 229.0  |  |   |  |
| 9                               | 117.4  | 111.9  | 131.4  | 123.0  | 409.0  | 150.5  | 31.4  | 49.8   | 292.7  | 157.5  | 924.9  | 228.1  |  |   |  |
| 10                              | 112.2  | 111.6  | 205.2  | 125.2  | 344.5  | 284.6  | 28.7  | 119.9  | 286.8  | 147.3  | 756.4  | 225.7  |  |   |  |
| 11                              | 111.6  | 111.9  | 397.5  | 140.9  | 326.1  | 691.0  | 25.2  | 1255.7 | 272.7  | 142.7  | 662.9  | 228.1  |  |   |  |
| 12                              | 111.6  | 113.9  | 805.3  | 146.2  | 301.8  | 391.0  | 26.0  | 1154.5 | 259.9  | 137.1  | 604.8  | 229.0  |  |   |  |
| 13                              | 115.9  | 114.3  | 1069.9 | 157.0  | 275.9  | 245.8  | 25.9  | 341.7  | 247.9  | 131.9  | 564.7  | 232.8  |  |   |  |
| 14                              | 141.1  | 115.0  | 673.4  | 336.8  | 249.0  | 193.8  | 23.6  | 159.3  | 237.7  | 131.2  | 518.2  | 239.1  |  |   |  |
| 15                              | 139.4  | 119.5  | 458.7  | 354.2  | 229.1  | 177.2  | 21.2  | 109.6  | 235.7  | 132.3  | 488.3  | 239.1  |  |   |  |
| 16                              | 129.8  | 122.6  | 334.4  | 242.9  | 214.1  | 160.3  | 19.9  | 83.8   | 232.8  | 143.3  | 770.1  | 232.4  |  |   |  |
| 17                              | 128.7  | 126.2  | 255.7  | 202.1  | 203.2  | 151.6  | 18.8  | 62.9   | 232.4  | 171.1  | 1040.0 | 225.7  |  |   |  |
| 18                              | 131.2  | 133.8  | 222.1  | 181.8  | 194.3  | 140.1  | 18.7  | 49.8   | 233.3  | 174.7  | 1020.5 | 224.3  |  |   |  |
| 19                              | 133.8  | 139.0  | 219.2  | 166.4  | 178.9  | 128.4  | 18.4  | 48.7   | 243.1  | 154.1  | 1002.0 | 220.1  |  |   |  |
| 20                              | 134.1  | 146.9  | 210.4  | 164.5  | 167.2  | 117.7  | 16.7  | 58.9   | 281.0  | 140.9  | 996.5  | 211.3  |  |   |  |
| 21                              | 133.8  | 302.8  | 202.3  | 190.6  | 167.6  | 111.6  | 16.3  | 54.2   | 735.2  | 133.8  | 993.0  | 209.9  |  |   |  |
| 22                              | 131.2  | 253.4  | 193.0  | 179.4  | 164.7  | 106.6  | 15.4  | 49.1   | 1352.4 | 126.2  | 584.6  | 209.5  |  |   |  |
| 23                              | 128.3  | 154.5  | 187.8  | 197.6  | 182.0  | 103.3  | 14.4  | 48.4   | 928.4  | 124.0  | 320.6  | 206.3  |  |   |  |
| 24                              | 125.1  | 132.4  | 178.8  | 172.8  | 358.6  | 97.0   | 12.6  | 48.4   | 619.4  | 130.5  | 289.0  | 202.7  |  |   |  |
| 25                              | 120.5  | 120.2  | 172.1  | 147.8  | 231.6  | 82.7   | 11.5  | 48.4   | 505.8  | 135.3  | 283.6  | 199.6  |  |   |  |
| 26                              | 119.8  | 112.3  | 168.4  | 134.9  | 865.2  | 74.9   | 10.6  | 86.4   | 547.2  | 146.2  | 276.3  | 198.7  |  |   |  |
| 27                              | 119.8  | 108.9  | 165.1  | 128.3  | 1038.4 | 70.5   | 10.9  | 205.3  | 780.6  | 160.0  | 267.5  | 195.6  |  |   |  |
| 28                              | 119.8  | 106.6  | 161.9  | 125.1  | 488.5  | 67.8   | 13.7  | 2203.1 | 542.7  | 176.8  | 256.9  | 192.5  |  |   |  |
| 29                              | 119.8  |        | 158.3  | 136.8  | 351.8  | 64.4   | 17.3  | 2307.2 | 438.7  | 179.5  | 252.4  | 192.5  |  |   |  |
| 30                              | 119.8  |        | 152.4  | 156.7  | 287.2  | 63.1   | 18.2  | 2304.8 | 376.3  | 255.8  | 250.9  | 195.6  |  |   |  |
| 31                              | 119.8  |        | 146.2  |        | 262.5  |        | 21.1  | 1241.3 |        | 295.4  |        | 99.1   |  |   |  |
| MEAN                            | 123.02 | 132.10 | 250.72 | 165.29 | 599.56 | 170.57 | 25.46 | 399.39 | 449.44 | 166.88 | 879.71 | 215.57 |  |   |  |
| INCHES                          | 0.039  | 0.038  | 0.079  | 0.050  | 0.189  | 0.052  | 0.008 | 0.126  | 0.137  | 0.053  | 0.268  | 0.068  |  |   |  |
| STA AV                          | 0.045  | 0.037  | 0.058  | 0.082  | 0.130  | 0.123  | 0.048 | 0.044  | 0.109  | 0.081  | 0.093  | 0.048  |  |   |  |

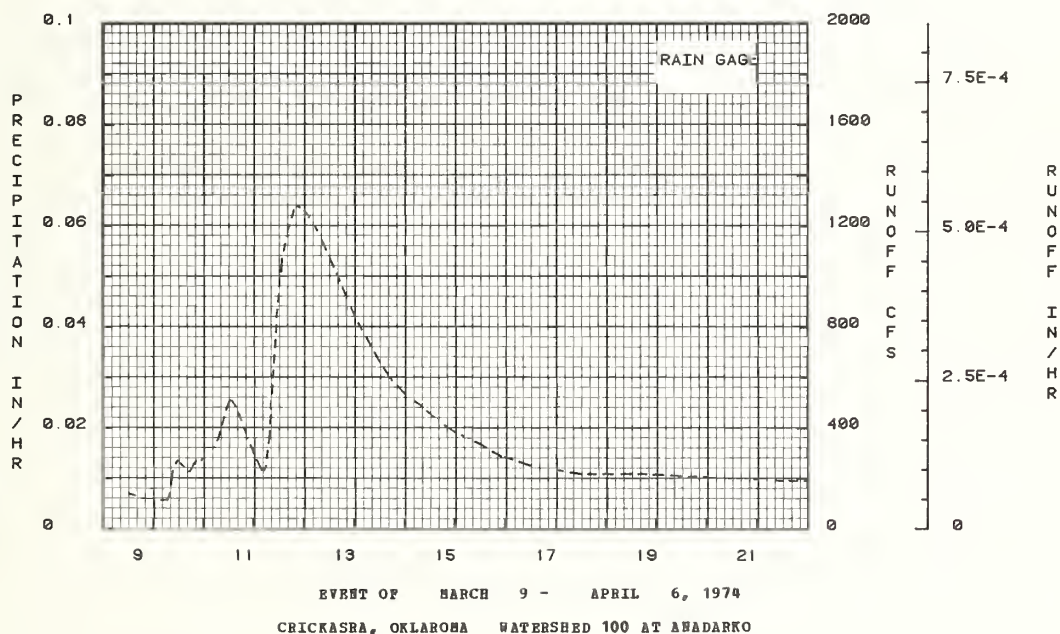
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. To convert discharge in CFS to IHD/DAI, multiply by 0.0001017. To convert discharge in inches to AC-FT, multiply by 194,983. STA AV based on 14 yr (1961-74) record period.

| 1974 SELECTED RUNOFF EVENT               |                      |                    | CHICKASAW, OKLAHOMA WATERSHED 100 AT AWADARKO |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                    |                      |                    | RAINFALL                                      |                |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                           | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                                | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MARCH 9 - APRIL 6, 1974         |                      |                    |   |                |                      |                  |                |                |               |                  |
| 3- 9                                     |                      | 0.001              |   |                |                      |                  | 3- 9           | 1200           | 140.080       | 0.0              |
|  |                      |                    |   |                |                      |                  |                | 2400           | 114.270       | 0.0007           |
|  |                      |                    |   |                |                      |                  | 3-10           | 641            | 114.450       | 0.0010           |
|  |                      |                    |   |                |                      |                  |                | 800            | 145.320       | 0.0010           |
|  |                      |                    |   |                |                      |                  |                | 930            | 231.760       | 0.0012           |
| WATERSHED CONDITIONS:<br>Not applicable. |                      |                    |   |                |                      |                  |                | 1100           | 265.490       | 0.0013           |
|  |                      |                    |   |                |                      |                  |                | 1148           | 271.938       | 0.0014           |
|  |                      |                    |   |                |                      |                  |                | 1300           | 259.110       | 0.0015           |
|  |                      |                    |   |                |                      |                  |                | 1630           | 228.040       | 0.0019           |
|  |                      |                    |   |                |                      |                  |                | 1730           | 229.330       | 0.0020           |
|  |                      |                    |   |                |                      |                  |                | 2030           | 272.790       | 0.0023           |
|  |                      |                    |   |                |                      |                  |                | 2300           | 272.600       | 0.0026           |
|  |                      |                    |   |                |                      |                  |                | 2400           | 294.729       | 0.0027           |
|  |                      |                    |   |                |                      |                  | 3-11           | 141            | 324.310       | 0.0030           |
|  |                      |                    |   |                |                      |                  |                | 500            | 324.280       | 0.0034           |
|  |                      |                    |   | 700            | 358.128              | 0.0037           |                |                |               |                  |
|  |                      |                    |   | 1100           | 480.000              | 0.0044           |                |                |               |                  |
|  |                      |                    |   | 1230           | 511.138              | 0.0047           |                |                |               |                  |
|  |                      |                    |   | 1330           | 508.760              | 0.0050           |                |                |               |                  |
|  |                      |                    |   | 1530           | 485.438              | 0.0054           |                |                |               |                  |
|  |                      |                    |   | 2000           | 387.178              | 0.0062           |                |                |               |                  |
|  |                      |                    | 3-12  | 2400           | 300.010              | 0.0068           |                |                |               |                  |
|  |                      |                    |   | 400            | 231.310              | 0.0072           |                |                |               |                  |
|  |                      |                    |   | 500            | 229.120              | 0.0073           |                |                |               |                  |
|  |                      |                    |   | 600            | 251.470              | 0.0074           |                |                |               |                  |
|  |                      |                    |   | 730            | 360.260              | 0.0076           |                |                |               |                  |
|  |                      |                    |   | 900            | 570.860              | 0.0079           |                |                |               |                  |
|  |                      |                    |   | 1100           | 841.908              | 0.0085           |                |                |               |                  |
|  |                      |                    |   | 1330           | 1073.280             | 0.0095           |                |                |               |                  |
|  |                      |                    |   | 1600           | 1177.148             | 0.0107           |                |                |               |                  |
|  |                      |                    |   | 1900           | 1264.758             | 0.0123           |                |                |               |                  |
|  |                      |                    |   | 2100           | 1278.658             | 0.0134           |                |                |               |                  |
|  |                      |                    |   | 2200           | 1274.398             | 0.0139           |                |                |               |                  |
|  |                      |                    |   | 2400           | 1260.348             | 0.0150           |                |                |               |                  |
|  |                      |                    | 3-13  | 430            | 1210.749             | 0.0173           |                |                |               |                  |
|  |                      |                    |   | 900            | 1133.529             | 0.0196           |                |                |               |                  |
|  |                      |                    |   | 1400           | 1038.369             | 0.0219           |                |                |               |                  |
|  |                      |                    |   | 1900           | 942.599              | 0.0240           |                |                |               |                  |
|  |                      |                    |   | 2400           | 842.090              | 0.0259           |                |                |               |                  |
|  |                      |                    | 3-14  | 600            | 752.958              | 0.0279           |                |                |               |                  |
|  |                      |                    |   | 1200           | 662.158              | 0.0297           |                |                |               |                  |
|  |                      |                    |   | 1800           | 589.020              | 0.0313           |                |                |               |                  |
|  |                      |                    |   | 2400           | 536.918              | 0.0327           |                |                |               |                  |
|  |                      |                    | 3-15  | 800            | 486.830              | 0.0344           |                |                |               |                  |
|  |                      |                    |   | 1600           | 428.770              | 0.0360           |                |                |               |                  |
|  |                      |                    |   | 2400           | 384.030              | 0.0374           |                |                |               |                  |
|  |                      |                    | 3-16  | 1200           | 336.918              | 0.0392           |                |                |               |                  |
|  |                      |                    |   | 2200           | 288.490              | 0.0405           |                |                |               |                  |
|  |                      |                    |   | 2400           | 284.500              | 0.0408           |                |                |               |                  |
|  |                      |                    | 3-17  | 1200           | 251.860              | 0.0421           |                |                |               |                  |
|  |                      |                    |   | 2400           | 234.575              | 0.0434           |                |                |               |                  |
|  |                      |                    | 3-18  | 1200           | 217.290              | 0.0445           |                |                |               |                  |
|  |                      |                    |   | 2400           | 219.150              | 0.0456           |                |                |               |                  |
|  |                      |                    | 3-19  | 1200           | 221.010              | 0.0468           |                |                |               |                  |
|  |                      |                    |   | 2400           | 215.475              | 0.0479           |                |                |               |                  |
|  |                      |                    | 3-20  | 1200           | 209.940              | 0.0489           |                |                |               |                  |
|  |                      |                    |   | 2400           | 206.325              | 0.0500           |                |                |               |                  |
|  |                      |                    | 3-21  | 1200           | 202.710              | 0.0510           |                |                |               |                  |
|  |                      |                    |   | 2400           | 197.400              | 0.0521           |                |                |               |                  |
|  |                      |                    | 3-22  | 1200           | 192.090              | 0.0531           |                |                |               |                  |
|  |                      |                    |   | 2400           | 190.350              | 0.0540           |                |                |               |                  |
|  |                      |                    | 3-23  | 1200           | 188.610              | 0.0550           |                |                |               |                  |
|  |                      |                    |   | 2400           | 183.485              | 0.0559           |                |                |               |                  |
|  |                      |                    | 3-24  | 1200           | 178.360              | 0.0569           |                |                |               |                  |
|  |                      |                    |   | 2400           | 175.015              | 0.0578           |                |                |               |                  |
|  |                      |                    | 3-25  | 1200           | 171.670              | 0.0586           |                |                |               |                  |
|  |                      |                    |   | 2400           | 170.025              | 0.0595           |                |                |               |                  |
|  |                      |                    | 3-26  | 1200           | 168.380              | 0.0604           |                |                |               |                  |
|  |                      |                    |   | 2400           | 166.745              | 0.0612           |                |                |               |                  |
|  |                      |                    | 3-27  | 1200           | 165.110              | 0.0621           |                |                |               |                  |
|  |                      |                    |   | 2400           | 163.490              | 0.0629           |                |                |               |                  |
|  |                      |                    | 3-28  | 1200           | 161.870              | 0.0637           |                |                |               |                  |
|  |                      |                    |   | 2400           | 160.270              | 0.0645           |                |                |               |                  |
|  |                      |                    | 3-29  | 1200           | 158.670              | 0.0654           |                |                |               |                  |
|  |                      |                    |   | 2400           | 155.510              | 0.0662           |                |                |               |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.

| 1974   | SELECTED RUNOFF EVENT |                   |                | CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO |                      |                  |                |                |               |                  |
|--|-----------------------|-------------------|----------------|---|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                        |                       |                   | RAINFALL       |   |                      | RUNOFF           |                |                |               |                  |
| Date<br>Mo-Day                               | Rainfall<br>(inches)  | Rnoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day                                | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF MARCH 9 - APRIL 6, 1974 (CONTINUED) |                       |                   |                |   |                      |                  |                |                |               |                  |
|  |                       |                   |                |   |                      |                  | 3-30           | 1200           | 152.350       | 0.0669           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 149.250       | 0.0677           |
|  |                       |                   |                |   |                      |                  | 3-31           | 1200           | 146.150       | 0.0685           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 143.115       | 0.0692           |
|  |                       |                   |                |   |                      |                  | 4- 1           | 1200           | 140.080       | 0.0699           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 140.080       | 0.0706           |
|  |                       |                   |                |   |                      |                  | 4- 2           | 1200           | 140.080       | 0.0713           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 138.585       | 0.0720           |
|  |                       |                   |                |   |                      |                  | 4- 3           | 1200           | 137.090       | 0.0727           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 134.145       | 0.0734           |
|  |                       |                   |                |   |                      |                  | 4- 4           | 1200           | 131.200       | 0.0741           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 128.315       | 0.0748           |
|  |                       |                   |                |   |                      |                  | 4- 5           | 1200           | 125.430       | 0.0754           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 125.430       | 0.0761           |
|  |                       |                   |                |   |                      |                  | 4- 6           | 1200           | 125.430       | 0.0767           |
|  |                       |                   |                |   |                      |                  |                | 2400           | 124.015       | 0.0773           |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.



CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN

LOCATION: Washita River above Verden, Okla.; Southwest Central Okla. and Texas Panhandle; in Caddo, Canadian, Kiowa, Washita, Carter, Beckham, and Roger Hills Counties, Okla.; and Bessie, Wheeler, and Gray Counties, Tex.; Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 7, T. 7 N., R. 8 W., lat. 35 deg. 05 min. N., long. 98 deg. 05 min. W.; North edge of Verden, Okla. at county road bridge over Washita River; at river mile 283.4, approximately 8.4 miles upstream from confluence with Ionine Creek.

AREA: 2612500.00 acres 4082.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CRICKASAW, OKLAHOMA |   |       | WATERSHED 200 AT VERDEN |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|---------------------|---|-------|-------------------------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                 | Jul                                       | Aug   | Sep                     | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.15              | 2.26  | 2.39   | 3.14  | 4.63    | 1.75                | 1.29                                      | 5.32  | 3.34                    | 3.86  | 2.62  | 1.33  | 32.08  |       |        |       |
|   | Q | 0.041             | 0.042 | 0.086  | 0.050 | 0.185   | 0.053               | 0.009                                     | 0.118 | 0.133                   | 0.052 | 0.262 | 0.069 | 1.099  |       |        |       |
| STA AV  | P | 0.73              | 0.99  | 1.77   | 2.68  | 3.79    | 3.25                | 1.90                                      | 2.76  | 4.50                    | 2.21  | 1.73  | 1.02  | 27.33  |       |        |       |
|   | Q | 0.047             | 0.038 | 0.056  | 0.080 | 0.126   | 0.123               | 0.045                                     | 0.040 | 0.101                   | 0.079 | 0.091 | 0.050 | 0.877  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                     |   |       |                         |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                     | Maximum Volume for Selected Time Interval |       |                         |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                | Date                                      | Vol.  | Date                    | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 11- 6             | 0.001 | 11- 6  | 0.001 | 11- 6   | 0.002               | 11- 6                                     | 0.007 | 11- 6                   | 0.015 | 11- 5 | 0.029 | 11- 5  | 0.055 | 11- 2  | 0.132 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                     |   |       |                         |       |       |       |        |       |        |       |
|   |   | 5- 6              | 0.002 | 5- 7   | 0.002 | 9-24    | 0.005               | 9-24                                      | 0.019 | 9-24                    | 0.038 | 9-24  | 0.075 | 9-24   | 0.141 | 9-21   | 0.344 |
|   |   | 1969              |       | 1969   |       | 1965    |                     | 1965                                      |       | 1965                    |       | 1965  |       | 1965   |       | 1965   |       |

NOTES: Watershed conditions: For area between stations 100 and 200 and not included above subwatersheds as determined from a revised 1974 survey; Sowed crop - 32%; row crop - 4%; alfalfa - 6%; pasture and range - 46%; and miscellaneous - 12%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 65 rain gages for the reach between stations at Anadarko and Verden. Precipitation records began Oct. 1961; Runoff records began Sept. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, OK.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |   |  |
| 1                                 | 0.02 | 0.0  | 0.0  | 0.0  | 1.45 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 1.57 | 0.0  |   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.02 | 0.07 | 0.0  | 0.0  | 0.46 | 0.0  |   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.49 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  | 0.0  | 0.02 |   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.02 | 0.0  | 0.19 | 0.0  | 0.05 |   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.02 | 0.10 | 0.0  |   |  |
| 8                                 | 0.0  | 0.0  | 0.83 | 0.0  | 0.0  | 0.55 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 9                                 | 0.08 | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 0.0  | 0.0  | 0.33 | 0.0  |   |  |
| 10                                | 0.0  | 0.0  | 1.25 | 0.0  | 0.0  | 0.0  | 0.0  | 1.20 | 0.0  | 0.0  | 0.09 | 0.63 |   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 |   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  |   |  |
| 14                                | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  |   |  |
| 15                                | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  | 0.0  |   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  |   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.42 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |   |  |
| 18                                | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 | 0.0  | 0.0  | 0.0  |   |  |
| 20                                | 0.0  | 1.73 | 0.27 | 0.31 | 0.01 | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  |   |  |
| 21                                | 0.0  | 0.31 | 0.0  | 0.0  | 1.00 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.04 | 0.0  | 0.0  |   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.04 | 1.11 | 0.86 | 0.0  | 0.0  |   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.31 | 0.0  | 0.0  | 0.0  | 0.03 | 0.18 | 0.0  | 0.0  |   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.01 | 0.0  | 0.0  |   |  |
| 27                                | 0.04 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 1.08 | 0.0  | 0.01 | 0.0  | 0.0  |   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.68 | 0.0  | 0.0  |   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 1.66 | 0.0  | 0.0  | 0.78 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.16 | 0.0  | 0.28 |   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.77 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.14 |   |  |
| TOTAL                             | 0.15 | 2.26 | 2.39 | 3.14 | 4.63 | 1.75 | 1.29 | 5.32 | 3.34 | 3.86 | 2.62 | 1.33 |   |  |
| STA AV                            | 0.73 | 0.99 | 1.77 | 2.68 | 3.79 | 3.25 | 1.90 | 2.76 | 4.50 | 2.21 | 1.73 | 1.02 |   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 65 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN |        |        |        |        |        |        |       |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 149.3  | 133.1  | 135.7  | 156.9  | 496.2  | 287.6  | 65.3  | 21.4   | 736.9  | 354.3  | 458.6  | 285.4  |
| 2   | 141.4  | 130.7  | 133.7  | 152.0  | 1805.7 | 221.8  | 60.0  | 24.2   | 477.3  | 267.8  | 1140.4 | 274.0  |
| 3   | 135.2  | 129.2  | 135.2  | 148.9  | 2260.0 | 195.4  | 55.8  | 24.8   | 360.0  | 245.4  | 1065.3 | 264.0  |
| 4   | 134.4  | 127.7  | 134.6  | 145.2  | 2844.6 | 190.9  | 55.3  | 26.4   | 319.2  | 222.9  | 2158.7 | 257.1  |
| 5   | 134.4  | 125.3  | 134.7  | 142.1  | 1984.4 | 176.6  | 51.4  | 30.8   | 597.2  | 202.3  | 2902.4 | 251.9  |
| 6   | 134.4  | 123.1  | 136.2  | 138.5  | 1112.6 | 181.2  | 46.8  | 37.4   | 703.0  | 189.8  | 3158.9 | 248.0  |
| 7   | 134.4  | 122.5  | 132.9  | 135.5  | 760.3  | 175.1  | 41.8  | 39.2   | 488.4  | 183.5  | 2046.6 | 249.4  |
| 8   | 134.4  | 120.4  | 157.0  | 132.4  | 600.5  | 240.3  | 36.0  | 40.9   | 409.1  | 180.0  | 1242.6 | 247.0  |
| 9   | 134.4  | 119.2  | 293.9  | 132.6  | 480.1  | 293.8  | 37.1  | 44.3   | 364.4  | 175.1  | 963.3  | 244.3  |
| 10  | 134.4  | 118.9  | 295.7  | 130.8  | 417.8  | 232.8  | 34.3  | 487.5  | 345.9  | 166.0  | 827.5  | 247.8  |
| 11  | 134.4  | 117.9  | 641.3  | 176.6  | 380.5  | 577.9  | 31.5  | 696.3  | 334.3  | 157.4  | 770.2  | 264.7  |
| 12  | 134.4  | 117.8  | 650.6  | 172.6  | 350.4  | 521.8  | 31.4  | 1368.7 | 313.5  | 149.3  | 726.7  | 268.9  |
| 13  | 136.6  | 117.8  | 1158.7 | 158.4  | 311.3  | 327.4  | 33.2  | 614.7  | 288.7  | 143.0  | 693.3  | 263.4  |
| 14  | 149.6  | 117.6  | 832.4  | 199.3  | 285.3  | 235.7  | 33.4  | 266.6  | 271.5  | 141.5  | 641.4  | 265.1  |
| 15  | 154.3  | 117.1  | 584.4  | 458.6  | 258.7  | 196.7  | 32.6  | 165.5  | 263.2  | 143.0  | 594.0  | 266.3  |
| 16  | 168.5  | 120.3  | 441.9  | 340.6  | 233.6  | 180.6  | 31.1  | 105.5  | 263.2  | 143.0  | 639.4  | 263.2  |
| 17  | 167.6  | 123.8  | 332.5  | 244.6  | 217.1  | 169.0  | 28.9  | 78.7   | 261.7  | 156.3  | 1032.1 | 257.3  |
| 18  | 165.8  | 125.8  | 268.6  | 197.9  | 205.1  | 166.2  | 26.7  | 63.0   | 260.2  | 176.6  | 1074.3 | 253.6  |
| 19  | 164.4  | 131.1  | 246.9  | 173.4  | 190.4  | 150.4  | 24.5  | 55.7   | 270.4  | 168.5  | 1066.9 | 249.4  |
| 20  | 162.7  | 139.3  | 245.7  | 165.6  | 175.7  | 133.2  | 21.9  | 54.9   | 294.2  | 155.0  | 1041.5 | 241.3  |
| 21  | 160.1  | 604.3  | 248.0  | 184.3  | 172.1  | 124.3  | 19.8  | 61.9   | 484.6  | 144.4  | 1034.2 | 236.8  |
| 22  | 157.4  | 399.1  | 246.0  | 195.2  | 186.3  | 118.0  | 17.6  | 54.3   | 1151.9 | 138.5  | 856.6  | 231.5  |
| 23  | 154.4  | 267.9  | 237.8  | 175.0  | 180.2  | 112.7  | 16.3  | 51.1   | 1199.4 | 135.2  | 439.7  | 230.1  |
| 24  | 150.7  | 201.0  | 231.1  | 209.8  | 301.1  | 104.7  | 12.8  | 53.1   | 779.8  | 138.7  | 358.6  | 226.2  |
| 25  | 147.9  | 169.0  | 218.9  | 162.6  | 422.2  | 87.1   | 12.1  | 79.0   | 616.2  | 150.5  | 325.4  | 222.8  |
| 26  | 146.1  | 153.8  | 209.9  | 147.3  | 589.9  | 81.6   | 11.6  | 79.4   | 529.2  | 150.1  | 312.5  | 220.4  |
| 27  | 142.5  | 144.2  | 199.7  | 140.0  | 1242.7 | 78.9   | 11.2  | 129.7  | 748.3  | 163.1  | 312.9  | 222.0  |
| 28  | 139.7  | 138.6  | 190.9  | 135.9  | 729.3  | 74.4   | 11.5  | 1473.0 | 639.5  | 184.8  | 308.3  | 219.6  |
| 29  | 137.2  |        | 184.2  | 171.6  | 447.9  | 71.6   | 14.2  | 2374.1 | 477.1  | 188.1  | 300.3  | 216.9  |
| 30  | 135.9  |        | 175.8  | 267.1  | 341.1  | 68.1   | 18.6  | 2536.9 | 406.1  | 207.9  | 294.1  | 218.5  |
| 31  | 135.4  |        | 166.9  |        | 339.2  |        | 19.5  | 1814.6 |        | 393.4  |        | 114.2  |
| MEAN  | 145.55 | 162.74 | 303.29 | 183.05 | 655.54 | 192.53 | 30.51 | 417.85 | 488.47 | 184.37 | 959.55 | 242.62 |
| INCHES  | 0.041  | 0.042  | 0.086  | 0.050  | 0.185  | 0.053  | 0.009 | 0.118  | 0.133  | 0.052  | 0.262  | 0.069  |
| STA AV  | 0.047  | 0.038  | 0.056  | 0.080  | 0.126  | 0.123  | 0.045 | 0.060  | 0.101  | 0.079  | 0.091  | 0.050  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000009111. To convert discharge in inches to AC-FT, multiply by 217,708. STA AV based on 14 yr (1961-74) record period.

| 1974  | SELECTED RUNOFF EVENT |          |          |        |           | CHICKASHA, OKLAHOMA |        | WATERSHED 200 AT VERDEN |         |          |  |
|---|-----------------------|----------|----------|--------|-----------|---------------------|--------|-------------------------|---------|----------|--|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL |        |           |                     | RUNOFF |                         |         |          |  |
| Date  | Rainfall              | Runoff   | Date     | Time   | Intensity | Acc.                | Date   | Time                    | Rate    | Acc.     |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)            | Mo-Day | of Day                  | (cfs)   | (inches) |  |
| EVENT OF MARCH 8 - APRIL 5, 1974  |                       |          |          |        |           |                     |        |                         |         |          |  |
| 3- 8  |                       | 0.001    |          |        |           |                     | 3- 8   | 1100                    | 127.900 | 0.0      |  |
|   |                       |          |          |        |           |                     |        | 1611                    | 130.700 | 0.0003   |  |
|   |                       |          |          |        |           |                     |        | 1630                    | 138.300 | 0.0003   |  |
|   |                       |          |          |        |           |                     |        | 1723                    | 144.700 | 0.0003   |  |
|   |                       |          |          |        |           |                     |        | 1811                    | 178.200 | 0.0004   |  |
| WATERSHED CONDITIONS:<br>For area not included above<br>subwatersheds as determined<br>from a revised 1974 survey;<br>sowed crop - 32%; row crop -<br>4%; alfalfa - 6%; pasture<br>and range - 46%; and mis-<br>cellaneous - 12%. |                       |          |          |        |           |                     |        |                         |         |          |  |
|   |                       |          |          |        |           |                     |        | 1841                    | 250.500 | 0.0004   |  |
|   |                       |          |          |        |           |                     |        | 1900                    | 253.700 | 0.0004   |  |
|   |                       |          |          |        |           |                     |        | 1918                    | 247.400 | 0.0005   |  |
|   |                       |          |          |        |           |                     |        | 1930                    | 241.700 | 0.0005   |  |
|   |                       |          |          |        |           |                     |        | 2030                    | 223.100 | 0.0006   |  |
|   |                       |          |          |        |           |                     |        | 2053                    | 222.300 | 0.0006   |  |
|   |                       |          |          |        |           |                     |        | 2141                    | 223.800 | 0.0007   |  |
|   |                       |          |          |        |           |                     |        | 2230                    | 236.000 | 0.0007   |  |
|   |                       |          |          |        |           |                     |        | 2400                    | 276.198 | 0.0009   |  |
|   |                       |          |          |        |           |                     | 3- 9   | 130                     | 327.500 | 0.0011   |  |
|   |                       |          |          |        |           |                     |        | 300                     | 358.000 | 0.0013   |  |
|   |                       |          |          |        |           |                     |        | 430                     | 366.600 | 0.0015   |  |
|   |                       |          |          |        |           |                     |        | 630                     | 365.198 | 0.0018   |  |
|   |                       |          |          |        |           |                     |        | 730                     | 355.600 | 0.0019   |  |
|   |                       |          |          |        |           |                     |        | 1030                    | 318.500 | 0.0023   |  |
|   |                       |          |          |        |           |                     |        | 1500                    | 265.000 | 0.0028   |  |
|   |                       |          |          |        |           |                     |        | 1900                    | 236.100 | 0.0032   |  |
|   |                       |          |          |        |           |                     |        | 2400                    | 214.200 | 0.0036   |  |
|   |                       |          |          |        |           |                     | 3-10   | 630                     | 190.100 | 0.0041   |  |
|   |                       |          |          |        |           |                     |        | 900                     | 190.700 | 0.0043   |  |
|   |                       |          |          |        |           |                     |        | 1130                    | 196.900 | 0.0044   |  |
|   |                       |          |          |        |           |                     |        | 1330                    | 202.400 | 0.0046   |  |
|   |                       |          |          |        |           |                     |        | 1430                    | 228.500 | 0.0047   |  |
|   |                       |          |          |        |           |                     |        | 1500                    | 278.600 | 0.0047   |  |
|   |                       |          |          |        |           |                     |        | 1523                    | 286.198 | 0.0048   |  |

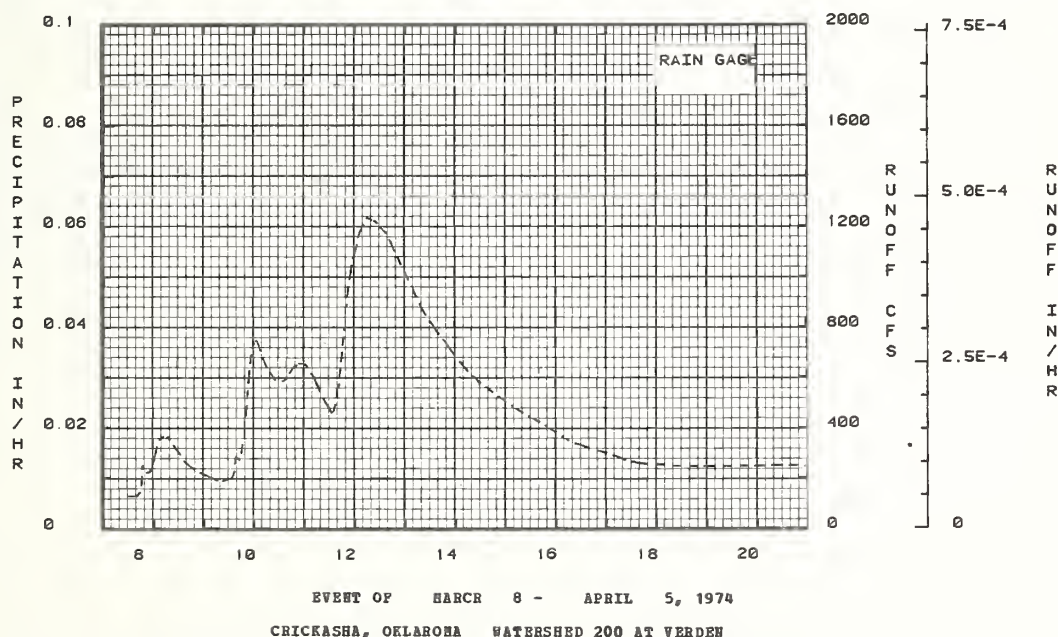
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | CHICKASHA, OKLAHOMA |        |        | WATERSHED 200 AT VERDEN |          |  |
|--|----------|----------|-----------------------|--------|-----------|---------------------|--------|--------|-------------------------|----------|--|
| ANTECEDENT CONDITIONS                        |          |          | RAINFALL              |        |           | RUNOFF              |        |        |                         |          |  |
| Date   | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.                | Date   | Time   | Rate                    | Acc.     |  |
| Mo-Day                                       | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)            | Mo-Day | of Day | (cfs)                   | (inches) |  |
| EVENT OF MARCH 8 - APRIL 5, 1974 (CONTINUED) |          |          |                       |        |           |                     |        |        |                         |          |  |
|  |          |          |                       |        |           |                     | 3-10   | 1553   | 281.000                 | 0.0048   |  |
|  |          |          |                       |        |           |                     |        | 1700   | 273.398                 | 0.0049   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 304.600                 | 0.0050   |  |
|  |          |          |                       |        |           |                     |        | 1930   | 391.600                 | 0.0052   |  |
|  |          |          |                       |        |           |                     |        | 2030   | 491.698                 | 0.0054   |  |
|  |          |          |                       |        |           |                     |        | 2130   | 599.800                 | 0.0056   |  |
|  |          |          |                       |        |           |                     |        | 2230   | 690.198                 | 0.0059   |  |
|  |          |          |                       |        |           |                     |        | 2318   | 722.999                 | 0.0061   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 739.198                 | 0.0063   |  |
|  |          |          |                       |        |           |                     | 3-11   | 100    | 746.600                 | 0.0065   |  |
|  |          |          |                       |        |           |                     |        | 130    | 742.598                 | 0.0067   |  |
|  |          |          |                       |        |           |                     |        | 200    | 734.198                 | 0.0068   |  |
|  |          |          |                       |        |           |                     |        | 300    | 707.898                 | 0.0071   |  |
|  |          |          |                       |        |           |                     |        | 600    | 643.298                 | 0.0079   |  |
|  |          |          |                       |        |           |                     |        | 1000   | 591.300                 | 0.0088   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 586.898                 | 0.0097   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 595.000                 | 0.0099   |  |
|  |          |          |                       |        |           |                     |        | 1900   | 643.599                 | 0.0109   |  |
|  |          |          |                       |        |           |                     |        | 2030   | 651.698                 | 0.0112   |  |
|  |          |          |                       |        |           |                     |        | 2130   | 656.898                 | 0.0115   |  |
|  |          |          |                       |        |           |                     | 3-12   | 2400   | 653.799                 | 0.0121   |  |
|  |          |          |                       |        |           |                     |        | 30     | 651.898                 | 0.0122   |  |
|  |          |          |                       |        |           |                     |        | 130    | 640.398                 | 0.0125   |  |
|  |          |          |                       |        |           |                     |        | 430    | 600.198                 | 0.0132   |  |
|  |          |          |                       |        |           |                     |        | 730    | 547.698                 | 0.0138   |  |
|  |          |          |                       |        |           |                     |        | 1000   | 500.600                 | 0.0143   |  |
|  |          |          |                       |        |           |                     |        | 1300   | 460.398                 | 0.0149   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 465.898                 | 0.0151   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 492.398                 | 0.0152   |  |
|  |          |          |                       |        |           |                     |        | 1630   | 575.000                 | 0.0155   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 701.100                 | 0.0159   |  |
|  |          |          |                       |        |           |                     |        | 1930   | 831.599                 | 0.0163   |  |
|  |          |          |                       |        |           |                     |        | 2100   | 961.300                 | 0.0168   |  |
|  |          |          |                       |        |           |                     |        | 2230   | 1045.498                | 0.0174   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 1098.498                | 0.0180   |  |
|  |          |          |                       |        |           |                     | 3-13   | 230    | 1180.198                | 0.0191   |  |
|  |          |          |                       |        |           |                     |        | 600    | 1235.499                | 0.0207   |  |
|  |          |          |                       |        |           |                     |        | 800    | 1225.998                | 0.0216   |  |
|  |          |          |                       |        |           |                     |        | 930    | 1222.099                | 0.0223   |  |
|  |          |          |                       |        |           |                     |        | 1030   | 1213.698                | 0.0228   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 1198.798                | 0.0235   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 1173.099                | 0.0248   |  |
|  |          |          |                       |        |           |                     |        | 1900   | 1104.299                | 0.0266   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 1014.198                | 0.0286   |  |
|  |          |          |                       |        |           |                     | 3-14   | 400    | 945.698                 | 0.0301   |  |
|  |          |          |                       |        |           |                     |        | 800    | 872.198                 | 0.0314   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 821.698                 | 0.0327   |  |
|  |          |          |                       |        |           |                     |        | 1600   | 773.998                 | 0.0339   |  |
|  |          |          |                       |        |           |                     |        | 2000   | 731.799                 | 0.0351   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 683.498                 | 0.0362   |  |
|  |          |          |                       |        |           |                     | 3-15   | 600    | 625.300                 | 0.0376   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 578.000                 | 0.0390   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 540.500                 | 0.0403   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 503.800                 | 0.0415   |  |
|  |          |          |                       |        |           |                     | 3-16   | 800    | 459.800                 | 0.0429   |  |
|  |          |          |                       |        |           |                     |        | 1600   | 423.198                 | 0.0443   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 381.800                 | 0.0455   |  |
|  |          |          |                       |        |           |                     | 3-17   | 600    | 347.898                 | 0.0463   |  |
|  |          |          |                       |        |           |                     |        | 1600   | 317.100                 | 0.0476   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 299.198                 | 0.0485   |  |
|  |          |          |                       |        |           |                     | 3-18   | 900    | 271.500                 | 0.0495   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 258.198                 | 0.0501   |  |
|  |          |          |                       |        |           |                     |        | 2000   | 253.400                 | 0.0506   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 251.900                 | 0.0510   |  |
|  |          |          |                       |        |           |                     | 3-19   | 1200   | 245.300                 | 0.0521   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 245.300                 | 0.0532   |  |
|  |          |          |                       |        |           |                     | 3-20   | 1200   | 245.300                 | 0.0543   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 246.950                 | 0.0555   |  |
|  |          |          |                       |        |           |                     | 3-21   | 1200   | 248.600                 | 0.0566   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 247.800                 | 0.0577   |  |
|  |          |          |                       |        |           |                     | 3-22   | 1200   | 247.000                 | 0.0588   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 242.100                 | 0.0600   |  |
|  |          |          |                       |        |           |                     | 3-23   | 1200   | 237.200                 | 0.0610   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 234.750                 | 0.0621   |  |
|  |          |          |                       |        |           |                     | 3-24   | 1200   | 232.300                 | 0.0632   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

| 1974 SELECTED RUNOFF EVENT                   |          |          | CRICKASHA, OKLAHOMA |        |           |          | WATERSHED 200 AT VERDEN |        |         |          |
|--|----------|----------|---------------------|--------|-----------|----------|-------------------------|--------|---------|----------|
| ANTECEDENT CONDITIONS                        |          |          | RAINFALL            |        |           |          | RUNOFF                  |        |         |          |
| Date   | Rainfall | Runoff   | Date                | Time   | Intensity | Acc.     | Date                    | Time   | Rate    | Acc.     |
| Mo-Day                                       | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches) | Mo-Day                  | of Day | (cfs)   | (inches) |
| EVENT OF MARCH 8 - APRIL 5, 1974 (CONTINUED) |          |          |                     |        |           |          |                         |        |         |          |
|  |          |          |                     |        |           |          | 3-24                    | 2400   | 225.200 | 0.0642   |
|  |          |          |                     |        |           |          | 3-25                    | 1200   | 218.100 | 0.0652   |
|  |          |          |                     |        |           |          |                         | 2400   | 214.200 | 0.0662   |
|  |          |          |                     |        |           |          | 3-26                    | 1200   | 210.300 | 0.0672   |
|  |          |          |                     |        |           |          |                         | 2400   | 204.900 | 0.0681   |
|  |          |          |                     |        |           |          | 3-27                    | 1200   | 199.500 | 0.0690   |
|  |          |          |                     |        |           |          |                         | 2400   | 195.000 | 0.0699   |
|  |          |          |                     |        |           |          | 3-28                    | 1200   | 190.500 | 0.0708   |
|  |          |          |                     |        |           |          |                         | 2400   | 187.550 | 0.0717   |
|  |          |          |                     |        |           |          | 3-29                    | 1200   | 184.600 | 0.0725   |
|  |          |          |                     |        |           |          |                         | 2400   | 180.200 | 0.0734   |
|  |          |          |                     |        |           |          | 3-30                    | 1200   | 175.800 | 0.0742   |
|  |          |          |                     |        |           |          |                         | 2400   | 171.500 | 0.0750   |
|  |          |          |                     |        |           |          | 3-31                    | 1200   | 167.200 | 0.0757   |
|  |          |          |                     |        |           |          |                         | 2400   | 161.600 | 0.0765   |
|  |          |          |                     |        |           |          | 4- 1                    | 1200   | 156.000 | 0.0772   |
|  |          |          |                     |        |           |          |                         | 2400   | 153.900 | 0.0779   |
|  |          |          |                     |        |           |          | 4- 2                    | 1200   | 151.800 | 0.0786   |
|  |          |          |                     |        |           |          |                         | 2400   | 150.450 | 0.0793   |
|  |          |          |                     |        |           |          | 4- 3                    | 1200   | 149.100 | 0.0800   |
|  |          |          |                     |        |           |          |                         | 2400   | 147.050 | 0.0807   |
|  |          |          |                     |        |           |          | 4- 4                    | 1200   | 145.000 | 0.0813   |
|  |          |          |                     |        |           |          |                         | 2400   | 143.650 | 0.0820   |
|  |          |          |                     |        |           |          | 4- 5                    | 1200   | 142.300 | 0.0826   |
|  |          |          |                     |        |           |          |                         | 2400   | 140.300 | 0.0833   |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



## CHICKASAW, OKLAHOMA WATERSHED 500 NEAR CHICKASAW

LOCATION: Washita River Watershed above Chickasaw, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Hills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SR1/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min. N.; long. 97 deg. 54 min. W.; 1 mile Northeast of Chickasaw, Okla., at H. R. Bailey Turnpike bridge over Washita River at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 4325.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |       |                  |       |                   |       | CHICKASAW, OKLAHOMA WATERSHED 500 NEAR CHICKASAW |       |                    |       |                 |       |                  |        |
|---|-------|------------------|-------|-------------------|-------|--|-------|--------------------|-------|-----------------|-------|------------------|--------|
|   | Jan   | Feb              | Mar   | Apr               | May   | Jun  | Jul   | Aug                | Sep   | Oct             | Nov   | Dec              | Annual |
| 1974 P  | 0.10  | 1.80             | 3.50  | 3.48              | 4.57  | 1.46   | 1.83  | 4.19               | 2.98  | 4.22            | 1.92  | 1.43             | 31.48  |
| Q   | 0.042 | 0.048            | 0.122 | 0.056             | 0.201 | 0.064  | 0.012 | 0.106              | 0.132 | 0.057           | 0.255 | 0.076            | 1.170  |
| STA AV P  | 0.79  | 1.07             | 1.78  | 2.86              | 3.79  | 3.09   | 1.84  | 2.81               | 3.86  | 2.41            | 1.92  | 0.95             | 27.17  |
| Q   | 0.040 | 0.033            | 0.058 | 0.089             | 0.136 | 0.099  | 0.039 | 0.039              | 0.090 | 0.073           | 0.081 | 0.046            | 0.825  |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |       |                  |       |                   |       |  |       |                    |       |                 |       |                  |        |
| Maximum Discharge Date Rate   |       | 1 Hour Date Vol. |       | 2 Hours Date Vol. |       | 6 Hours Date Vol.                                |       | 12 Hours Date Vol. |       | 1 Day Date Vol. |       | 2 Days Date Vol. |        |
| 1974  | 3-11  | 0.001            | 3-10  | 0.001             | 3-10  | 0.002  | 3-10  | 0.007              | 3-10  | 0.013           | 11- 6 | 0.025            | 11- 5  |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 0.049  |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 11- 2  |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 0.132  |
| MAXIMUMS FOR PERIOD OF RECORD   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  |        |
|   | 4-12  | 0.003            | 5-29  | 0.002             | 4-12  | 0.005  | 4-12  | 0.015              | 5- 7  | 0.029           | 5- 6  | 0.055            | 5- 6   |
|   | 1967  |                  | 1970  |                   | 1967  |  | 1967  |                    | 1969  |                 | 1969  |                  | 1969   |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 0.102  |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 5- 5   |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 0.329  |
|   |       |                  |       |                   |       |  |       |                    |       |                 |       |                  | 1969   |

NOTES: Watershed conditions: For area between stations 200 and 500 and not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 48%; and miscellaneous - 8%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.7-21, (Composite). The station at Chickasaw (4th St.) Watershed 400 was discontinued in 1967, therefore, causing a new Thiessen weighted average for this watershed. Precipitation data obtained from a Thiessen weighted average of 40 gages for the reach between Verden (200) and Chickasaw (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasaw, Okla.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      | CHICKASAW, OKLAHOMA WATERSHED 500 NEAR CHICKASAW |      |      |      |      |      |      |      |
|--------|------------------------------|------|------|------|------|--|------|------|------|------|------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |
| 1      | 0.01                         | 0.0  | 0.0  | 0.0  | 1.36 | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.90 | 0.0  | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.39   | 0.0  | 0.07 | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.03   | 0.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.53   | 0.0  | 0.01 | 0.0  | 0.14 | 0.0  | 0.02 | 0.0  |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.03   | 0.0  | 0.0  | 0.0  | 0.05 | 0.07 | 0.0  | 0.0  |
| 8      | 0.0                          | 0.0  | 1.83 | 0.0  | 0.0  | 0.27   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9      | 0.07                         | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 1.47 | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  |
| 10     | 0.0                          | 0.0  | 1.39 | 0.0  | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.17 | 0.71 | 0.0  |
| 11     | 0.0                          | 0.0  | 0.0  | 1.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 14     | 0.0                          | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |
| 15     | 0.0                          | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.51 | 0.0  | 0.0  | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.19   | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |
| 18     | 0.0                          | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19     | 0.01                         | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  | 0.0  | 0.0  |
| 20     | 0.0                          | 1.10 | 0.24 | 0.32 | 0.01 | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  |
| 21     | 0.0                          | 0.56 | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22     | 0.0                          | 0.0  | 0.02 | 0.0  | 0.0  | 0.02   | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.07 | 1.14 | 0.90 | 0.0  | 0.0  | 0.0  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.96 | 0.0  | 0.0  | 0.0  | 0.06 | 0.65 | 0.0  | 0.0  | 0.0  |
| 26     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |
| 27     | 0.01                         | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.46 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.68 | 0.0  | 0.0  | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 1.93 | 0.0  | 0.0  | 1.19 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.25 | 0.0  | 0.24 | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 1.88 | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.19 | 0.0  |
| TOTAL  | 0.10                         | 1.80 | 3.50 | 3.48 | 4.57 | 1.46   | 1.83 | 4.19 | 2.98 | 4.22 | 1.92 | 1.43 |      |
| STA AV | 0.79                         | 1.07 | 1.78 | 2.86 | 3.79 | 3.09   | 1.84 | 2.81 | 3.86 | 2.41 | 1.92 | 0.95 |      |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 40 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA |        |        |        |        |        |        |       |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 146.5  | 145.6  | 152.6  | 187.6  | 768.7  | 804.7  | 73.8  | 31.7   | 1179.8 | 426.1  | 459.8  | 333.0  |
| 2  | 144.2  | 145.4  | 147.2  | 177.7  | 2282.4 | 406.2  | 70.5  | 28.4   | 638.8  | 340.5  | 1180.1 | 328.5  |
| 3  | 142.8  | 145.4  | 144.4  | 171.4  | 1985.3 | 310.8  | 66.1  | 30.5   | 463.0  | 280.8  | 1807.8 | 322.2  |
| 4  | 142.6  | 145.2  | 143.7  | 166.8  | 2578.9 | 281.7  | 70.4  | 30.5   | 372.9  | 257.5  | 1718.1 | 320.0  |
| 5  | 142.6  | 143.8  | 141.6  | 162.3  | 2500.2 | 232.6  | 66.3  | 31.9   | 344.2  | 233.1  | 2471.5 | 319.7  |
| 6  | 142.8  | 141.6  | 141.2  | 156.6  | 1442.0 | 221.4  | 59.5  | 34.4   | 769.5  | 210.4  | 2923.0 | 319.5  |
| 7  | 144.2  | 141.2  | 140.9  | 150.7  | 934.8  | 362.7  | 50.7  | 41.2   | 541.8  | 196.0  | 2618.7 | 318.0  |
| 8  | 146.8  | 141.1  | 228.3  | 150.7  | 725.0  | 240.3  | 47.3  | 44.4   | 413.0  | 188.2  | 1556.1 | 315.7  |
| 9  | 148.9  | 140.0  | 1749.2 | 149.6  | 585.4  | 441.2  | 43.4  | 59.5   | 356.5  | 184.0  | 1121.6 | 312.4  |
| 10   | 146.8  | 139.9  | 1137.6 | 149.5  | 479.6  | 293.9  | 42.8  | 720.8  | 321.8  | 176.6  | 935.0  | 318.4  |
| 11   | 144.4  | 139.7  | 2068.6 | 224.3  | 410.8  | 321.7  | 42.5  | 718.6  | 311.3  | 165.4  | 828.3  | 329.6  |
| 12   | 144.0  | 138.7  | 751.3  | 243.4  | 379.7  | 712.7  | 40.4  | 1224.1 | 296.9  | 154.8  | 720.8  | 343.9  |
| 13   | 146.1  | 138.5  | 990.1  | 185.6  | 363.2  | 465.5  | 39.9  | 979.8  | 281.1  | 150.2  | 662.8  | 340.0  |
| 14   | 161.1  | 138.7  | 1001.0 | 164.5  | 334.9  | 300.8  | 39.3  | 425.3  | 265.2  | 149.6  | 622.1  | 326.7  |
| 15   | 179.2  | 139.7  | 706.0  | 255.7  | 309.4  | 228.4  | 39.7  | 246.7  | 257.0  | 152.6  | 573.9  | 321.3  |
| 16   | 195.3  | 140.6  | 537.3  | 389.6  | 285.5  | 198.5  | 37.8  | 170.2  | 263.3  | 153.3  | 538.9  | 315.3  |
| 17   | 177.6  | 145.2  | 434.0  | 293.0  | 258.5  | 182.4  | 33.9  | 122.6  | 256.8  | 155.7  | 796.8  | 304.5  |
| 18   | 166.6  | 148.9  | 362.5  | 241.2  | 245.6  | 173.2  | 30.9  | 97.8   | 253.0  | 168.0  | 992.1  | 295.7  |
| 19   | 165.4  | 149.1  | 307.6  | 212.0  | 232.0  | 170.9  | 27.4  | 81.7   | 254.3  | 176.8  | 997.3  | 282.8  |
| 20   | 165.9  | 157.5  | 289.9  | 192.2  | 212.9  | 138.4  | 23.1  | 70.8   | 267.7  | 165.8  | 995.4  | 276.6  |
| 21   | 168.6  | 683.3  | 282.1  | 280.6  | 198.1  | 131.0  | 20.5  | 68.1   | 290.7  | 154.6  | 995.7  | 264.9  |
| 22   | 165.7  | 602.0  | 276.0  | 232.2  | 193.7  | 125.0  | 19.1  | 73.1   | 851.5  | 148.2  | 978.9  | 255.7  |
| 23   | 164.1  | 409.9  | 259.5  | 214.3  | 198.5  | 118.8  | 18.6  | 60.9   | 1374.7 | 144.6  | 624.1  | 246.6  |
| 24   | 163.7  | 273.4  | 244.6  | 209.7  | 200.6  | 115.1  | 17.0  | 57.1   | 948.9  | 151.9  | 427.6  | 240.9  |
| 25   | 162.5  | 214.9  | 240.1  | 206.1  | 411.5  | 116.6  | 16.1  | 60.6   | 674.1  | 159.6  | 383.9  | 235.4  |
| 26   | 161.0  | 188.4  | 231.8  | 178.9  | 526.8  | 70.4   | 12.3  | 85.3   | 544.2  | 259.8  | 367.2  | 234.2  |
| 27   | 159.4  | 170.7  | 225.1  | 166.7  | 1029.6 | 73.5   | 9.3   | 105.8  | 629.0  | 170.6  | 351.9  | 231.8  |
| 28   | 156.7  | 160.0  | 219.4  | 156.6  | 939.7  | 77.4   | 6.0   | 408.0  | 845.4  | 215.9  | 344.3  | 231.2  |
| 29   | 153.7  |        | 209.7  | 190.1  | 523.2  | 75.5   | 11.3  | 1981.8 | 600.3  | 260.1  | 335.0  | 230.0  |
| 30   | 149.8  |        | 203.1  | 702.3  | 408.8  | 74.4   | 206.9 | 2160.0 | 489.2  | 209.9  | 331.4  | 230.6  |
| 31   | 147.0  |        | 197.5  |        | 1395.5 |        | 62.9  | 2109.0 |        | 652.1  |        | 117.3  |
| MEAN   | 156.33 | 198.87 | 456.89 | 218.72 | 752.91 | 248.86 | 43.41 | 398.73 | 511.85 | 213.23 | 988.67 | 285.88 |
| INCHES   | 0.042  | 0.048  | 0.122  | 0.056  | 0.201  | 0.064  | 0.012 | 0.106  | 0.132  | 0.057  | 0.255  | 0.076  |
| STA AV   | 0.040  | 0.033  | 0.058  | 0.089  | 0.136  | 0.064  | 0.039 | 0.039  | 0.090  | 0.073  | 0.081  | 0.046  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000008599. To convert discharge in inches to AC-FT, multiply by 230,667. STA AV based on 11 yr (1964-74) record period.

| 1974 SELECTED RUNOFF EVENT  |          |          | CHICKASHA, OKLAHOMA |        |           |          | WATERSHED 500 NEAR CHICKASHA |        |          |          |
|---|----------|----------|---------------------|--------|-----------|----------|------------------------------|--------|----------|----------|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL            |        |           |          | RUNOFF                       |        |          |          |
| Date  | Rainfall | Runoff   | Date                | Time   | Intensity | Acc.     | Date                         | Time   | Rate     | Acc.     |
| Mo-Day  | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches) | Mo-Day                       | of Day | (cfs)    | (inches) |
| EVENT OF MARCH 8 - APRIL 5, 1974  |          |          |                     |        |           |          |                              |        |          |          |
| 3- 8  |          | 0.001    |                     |        |           |          | 3- 8                         | 1630   | 137.140  | 0.0      |
|   |          |          |                     |        |           |          |                              | 1800   | 146.040  | 0.0001   |
|   |          |          |                     |        |           |          |                              | 1848   | 183.070  | 0.0001   |
|   |          |          |                     |        |           |          |                              | 1930   | 254.220  | 0.0002   |
|   |          |          |                     |        |           |          |                              | 2000   | 281.030  | 0.0002   |
| WATERSHED CONDITIONS:   |          |          |                     |        |           |          |                              |        |          |          |
| For area not included above subwatersheds as determined from a 1974 survey: sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 48%; and miscellaneous - 8%. |          |          |                     |        |           |          |                              |        |          |          |
|   |          |          |                     |        |           |          |                              | 2048   | 319.760  | 0.0003   |
|   |          |          |                     |        |           |          |                              | 2130   | 405.458  | 0.0004   |
|   |          |          |                     |        |           |          |                              | 2200   | 534.010  | 0.0005   |
|   |          |          |                     |        |           |          |                              | 2218   | 634.800  | 0.0005   |
|   |          |          |                     |        |           |          |                              | 2241   | 769.458  | 0.0006   |
|   |          |          |                     |        |           |          |                              | 2300   | 905.178  | 0.0007   |
|   |          |          |                     |        |           |          |                              | 2318   | 1031.578 | 0.0008   |
|   |          |          |                     |        |           |          |                              | 2341   | 1201.638 | 0.0010   |
|   |          |          |                     |        |           |          |                              | 2400   | 1355.969 | 0.0011   |
|   |          |          |                     |        |           |          | 3- 9                         | 18     | 1502.368 | 0.0013   |
|   |          |          |                     |        |           |          |                              | 30     | 1614.478 | 0.0014   |
|   |          |          |                     |        |           |          |                              | 48     | 1734.878 | 0.0016   |
|   |          |          |                     |        |           |          |                              | 106    | 1883.369 | 0.0018   |
|   |          |          |                     |        |           |          |                              | 130    | 2063.638 | 0.0020   |
|   |          |          |                     |        |           |          |                              | 153    | 2222.539 | 0.0023   |
|   |          |          |                     |        |           |          |                              | 218    | 2338.908 | 0.0027   |
|   |          |          |                     |        |           |          |                              | 253    | 2503.568 | 0.0032   |
|   |          |          |                     |        |           |          |                              | 330    | 2648.479 | 0.0037   |
|   |          |          |                     |        |           |          |                              | 411    | 2764.148 | 0.0044   |
|   |          |          |                     |        |           |          |                              | 500    | 2862.239 | 0.0052   |
|   |          |          |                     |        |           |          |                              | 530    | 2881.218 | 0.0057   |
|   |          |          |                     |        |           |          |                              | 600    | 2872.999 | 0.0063   |
|   |          |          |                     |        |           |          |                              | 630    | 2848.769 | 0.0068   |
|   |          |          |                     |        |           |          |                              | 700    | 2816.860 | 0.0073   |
|   |          |          |                     |        |           |          |                              | 730    | 2750.578 | 0.0078   |

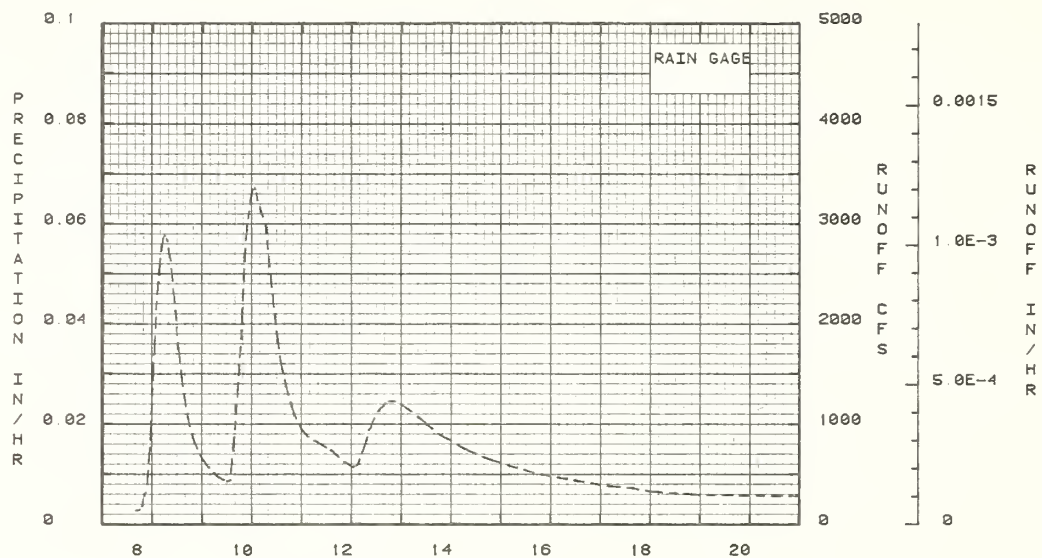
NOTES: To convert runoff in CFS to IN/HH, multiply by 0.0000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | CHICKASHA, OKLAHOMA |        |        | WATERSHED 500 NEAR CHICKASHA |          |  |
|--|----------|----------|-----------------------|--------|-----------|---------------------|--------|--------|------------------------------|----------|--|
| ANTECEDENT CONDITIONS                        |          |          | RAINFALL              |        |           | RUNOFF              |        |        |                              |          |  |
| Date   | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.                | Date   | Time   | Rate                         | Acc.     |  |
| Mo-Day                                       | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)            | Mo-Day | of Day | (cfs)                        | (inches) |  |
| EVENT OF MARCH 8 - APRIL 5, 1974 (CONTINUED) |          |          |                       |        |           |                     |        |        |                              |          |  |
|  |          |          |                       |        |           |                     | 3- 9   | 830    | 2623.339                     | 0.0087   |  |
|  |          |          |                       |        |           |                     |        | 930    | 2421.378                     | 0.0096   |  |
|  |          |          |                       |        |           |                     |        | 1030   | 2199.628                     | 0.0105   |  |
|  |          |          |                       |        |           |                     |        | 1111   | 2034.269                     | 0.0110   |  |
|  |          |          |                       |        |           |                     |        | 1148   | 1879.818                     | 0.0114   |  |
|  |          |          |                       |        |           |                     |        | 1230   | 1747.349                     | 0.0119   |  |
|  |          |          |                       |        |           |                     |        | 1311   | 1608.579                     | 0.0123   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 1484.638                     | 0.0127   |  |
|  |          |          |                       |        |           |                     |        | 1441   | 1372.340                     | 0.0131   |  |
|  |          |          |                       |        |           |                     |        | 1530   | 1241.398                     | 0.0135   |  |
|  |          |          |                       |        |           |                     |        | 1600   | 1173.288                     | 0.0137   |  |
|  |          |          |                       |        |           |                     |        | 1700   | 1065.508                     | 0.0141   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 969.279                      | 0.0144   |  |
|  |          |          |                       |        |           |                     |        | 1930   | 860.628                      | 0.0149   |  |
|  |          |          |                       |        |           |                     |        | 2130   | 751.799                      | 0.0155   |  |
|  |          |          |                       |        |           |                     | 3-10   | 2400   | 649.448                      | 0.0161   |  |
|  |          |          |                       |        |           |                     |        | 300    | 562.708                      | 0.0168   |  |
|  |          |          |                       |        |           |                     |        | 700    | 478.790                      | 0.0175   |  |
|  |          |          |                       |        |           |                     |        | 1030   | 438.790                      | 0.0181   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 427.300                      | 0.0183   |  |
|  |          |          |                       |        |           |                     |        | 1336   | 440.360                      | 0.0186   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 539.240                      | 0.0187   |  |
|  |          |          |                       |        |           |                     |        | 1430   | 655.330                      | 0.0188   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 771.398                      | 0.0189   |  |
|  |          |          |                       |        |           |                     |        | 1530   | 867.568                      | 0.0190   |  |
|  |          |          |                       |        |           |                     |        | 1611   | 1025.728                     | 0.0193   |  |
|  |          |          |                       |        |           |                     |        | 1641   | 1195.039                     | 0.0195   |  |
|  |          |          |                       |        |           |                     |        | 1711   | 1337.438                     | 0.0197   |  |
|  |          |          |                       |        |           |                     |        | 1741   | 1514.548                     | 0.0200   |  |
|  |          |          |                       |        |           |                     |        | 1811   | 1695.318                     | 0.0203   |  |
|  |          |          |                       |        |           |                     |        | 1841   | 1858.869                     | 0.0206   |  |
|  |          |          |                       |        |           |                     |        | 1906   | 2078.808                     | 0.0209   |  |
|  |          |          |                       |        |           |                     |        | 1930   | 2268.469                     | 0.0212   |  |
|  |          |          |                       |        |           |                     |        | 2000   | 2467.048                     | 0.0216   |  |
|  |          |          |                       |        |           |                     |        | 2030   | 2677.928                     | 0.0221   |  |
|  |          |          |                       |        |           |                     |        | 2100   | 2859.158                     | 0.0226   |  |
|  |          |          |                       |        |           |                     |        | 2130   | 2987.678                     | 0.0231   |  |
|  |          |          |                       |        |           |                     |        | 2200   | 3048.600                     | 0.0236   |  |
|  |          |          |                       |        |           |                     |        | 2300   | 3241.478                     | 0.0247   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 3342.238                     | 0.0259   |  |
|  |          |          |                       |        |           |                     | 3-11   | 100    | 3364.308                     | 0.0271   |  |
|  |          |          |                       |        |           |                     |        | 130    | 3338.309                     | 0.0277   |  |
|  |          |          |                       |        |           |                     |        | 200    | 3304.378                     | 0.0283   |  |
|  |          |          |                       |        |           |                     |        | 230    | 3231.789                     | 0.0289   |  |
|  |          |          |                       |        |           |                     |        | 400    | 3133.898                     | 0.0306   |  |
|  |          |          |                       |        |           |                     |        | 630    | 2973.239                     | 0.0333   |  |
|  |          |          |                       |        |           |                     |        | 730    | 2745.408                     | 0.0344   |  |
|  |          |          |                       |        |           |                     |        | 830    | 2562.520                     | 0.0353   |  |
|  |          |          |                       |        |           |                     |        | 930    | 2360.908                     | 0.0362   |  |
|  |          |          |                       |        |           |                     |        | 1030   | 2163.928                     | 0.0370   |  |
|  |          |          |                       |        |           |                     |        | 1118   | 1990.979                     | 0.0376   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 1889.599                     | 0.0381   |  |
|  |          |          |                       |        |           |                     |        | 1300   | 1745.968                     | 0.0387   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 1605.268                     | 0.0393   |  |
|  |          |          |                       |        |           |                     |        | 1500   | 1499.208                     | 0.0399   |  |
|  |          |          |                       |        |           |                     |        | 1618   | 1398.008                     | 0.0406   |  |
|  |          |          |                       |        |           |                     |        | 1730   | 1283.638                     | 0.0412   |  |
|  |          |          |                       |        |           |                     |        | 1900   | 1180.188                     | 0.0418   |  |
|  |          |          |                       |        |           |                     |        | 2130   | 1047.778                     | 0.0428   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 940.678                      | 0.0437   |  |
|  |          |          |                       |        |           |                     | 3-12   | 300    | 871.658                      | 0.0447   |  |
|  |          |          |                       |        |           |                     |        | 600    | 829.158                      | 0.0456   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 759.109                      | 0.0473   |  |
|  |          |          |                       |        |           |                     |        | 1400   | 736.628                      | 0.0478   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 665.490                      | 0.0488   |  |
|  |          |          |                       |        |           |                     |        | 2100   | 613.340                      | 0.0495   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 572.990                      | 0.0502   |  |
|  |          |          |                       |        |           |                     | 3-13   | 30     | 566.350                      | 0.0503   |  |
|  |          |          |                       |        |           |                     |        | 100    | 570.979                      | 0.0504   |  |
|  |          |          |                       |        |           |                     |        | 230    | 586.388                      | 0.0507   |  |
|  |          |          |                       |        |           |                     |        | 400    | 643.398                      | 0.0510   |  |
|  |          |          |                       |        |           |                     |        | 600    | 762.079                      | 0.0515   |  |
|  |          |          |                       |        |           |                     |        | 730    | 867.208                      | 0.0519   |  |
|  |          |          |                       |        |           |                     |        | 900    | 956.349                      | 0.0524   |  |
|  |          |          |                       |        |           |                     |        | 1100   | 1060.809                     | 0.0532   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

| 1974   | SELECTED RUNOFF EVENT |          |          | CHICKASHA, OKLAHOMA |           |          | WATERSHED 500 NEAR CHICKASHA |        |          |          |
|--|-----------------------|----------|----------|---------------------|-----------|----------|------------------------------|--------|----------|----------|
| ANTECEDENT CONDITIONS                        |                       |          | RAINFALL |                     |           | RUNOFF   |                              |        |          |          |
| Date   | Rainfall              | Runoff   | Date     | Time                | Intensity | Acc.     | Date                         | Time   | Rate     | Acc.     |
| Mo-Day                                       | (inches)              | (inches) | Mo-Day   | of Day              | (in/hr)   | (inches) | Mo-Day                       | of Day | (cfs)    | (inches) |
| EVENT OF MARCH 8 - APRIL 5, 1974 (CONTINUED) |                       |          |          |                     |           |          |                              |        |          |          |
|  |                       |          |          |                     |           |          | 3-13                         | 1330   | 1142.618 | 0.0541   |
|  |                       |          |          |                     |           |          |                              | 1630   | 1208.118 | 0.0554   |
|  |                       |          |          |                     |           |          |                              | 1800   | 1228.388 | 0.0561   |
|  |                       |          |          |                     |           |          |                              | 1830   | 1224.509 | 0.0563   |
|  |                       |          |          |                     |           |          |                              | 1930   | 1222.878 | 0.0567   |
|  |                       |          |          |                     |           |          |                              | 2100   | 1217.728 | 0.0574   |
|  |                       |          |          |                     |           |          |                              | 2400   | 1192.458 | 0.0587   |
|  |                       |          |          |                     |           |          | 3-14                         | 500    | 1116.239 | 0.0607   |
|  |                       |          |          |                     |           |          |                              | 1000   | 1032.768 | 0.0627   |
|  |                       |          |          |                     |           |          |                              | 1500   | 946.958  | 0.0644   |
|  |                       |          |          |                     |           |          |                              | 1900   | 882.028  | 0.0657   |
|  |                       |          |          |                     |           |          |                              | 2400   | 827.428  | 0.0673   |
|  |                       |          |          |                     |           |          | 3-15                         | 600    | 757.069  | 0.0690   |
|  |                       |          |          |                     |           |          |                              | 1200   | 700.259  | 0.0705   |
|  |                       |          |          |                     |           |          |                              | 1800   | 649.148  | 0.0720   |
|  |                       |          |          |                     |           |          |                              | 2400   | 607.878  | 0.0733   |
|  |                       |          |          |                     |           |          | 3-16                         | 800    | 558.678  | 0.0750   |
|  |                       |          |          |                     |           |          |                              | 1600   | 510.938  | 0.0765   |
|  |                       |          |          |                     |           |          |                              | 2400   | 476.658  | 0.0779   |
|  |                       |          |          |                     |           |          | 3-17                         | 800    | 448.780  | 0.0793   |
|  |                       |          |          |                     |           |          |                              | 1600   | 419.388  | 0.0805   |
|  |                       |          |          |                     |           |          |                              | 2400   | 390.770  | 0.0817   |
|  |                       |          |          |                     |           |          | 3-18                         | 600    | 375.938  | 0.0825   |
|  |                       |          |          |                     |           |          |                              | 1500   | 359.060  | 0.0837   |
|  |                       |          |          |                     |           |          |                              | 2400   | 328.040  | 0.0848   |
|  |                       |          |          |                     |           |          | 3-19                         | 600    | 315.810  | 0.0855   |
|  |                       |          |          |                     |           |          |                              | 1700   | 300.000  | 0.0867   |
|  |                       |          |          |                     |           |          |                              | 2400   | 289.820  | 0.0874   |
|  |                       |          |          |                     |           |          | 3-20                         | 1200   | 291.610  | 0.0887   |
|  |                       |          |          |                     |           |          |                              | 2400   | 286.438  | 0.0899   |
|  |                       |          |          |                     |           |          | 3-21                         | 1200   | 281.270  | 0.0911   |
|  |                       |          |          |                     |           |          |                              | 2400   | 279.560  | 0.0923   |
|  |                       |          |          |                     |           |          | 3-22                         | 1200   | 277.850  | 0.0935   |
|  |                       |          |          |                     |           |          |                              | 2400   | 268.560  | 0.0947   |
|  |                       |          |          |                     |           |          | 3-23                         | 1200   | 259.270  | 0.0958   |
|  |                       |          |          |                     |           |          |                              | 2400   | 251.000  | 0.0969   |
|  |                       |          |          |                     |           |          | 3-24                         | 1200   | 242.730  | 0.0980   |
|  |                       |          |          |                     |           |          |                              | 2400   | 241.915  | 0.0990   |
|  |                       |          |          |                     |           |          | 3-25                         | 1200   | 241.100  | 0.1001   |
|  |                       |          |          |                     |           |          |                              | 2400   | 236.230  | 0.1011   |
|  |                       |          |          |                     |           |          | 3-26                         | 1200   | 231.360  | 0.1021   |
|  |                       |          |          |                     |           |          |                              | 2400   | 228.145  | 0.1031   |
|  |                       |          |          |                     |           |          | 3-27                         | 1200   | 224.930  | 0.1041   |
|  |                       |          |          |                     |           |          |                              | 2400   | 222.540  | 0.1050   |
|  |                       |          |          |                     |           |          | 3-28                         | 1200   | 220.150  | 0.1060   |
|  |                       |          |          |                     |           |          |                              | 2400   | 214.635  | 0.1069   |
|  |                       |          |          |                     |           |          | 3-29                         | 1200   | 209.120  | 0.1078   |
|  |                       |          |          |                     |           |          |                              | 2400   | 206.010  | 0.1087   |
|  |                       |          |          |                     |           |          | 3-30                         | 1200   | 202.900  | 0.1096   |
|  |                       |          |          |                     |           |          |                              | 2400   | 200.585  | 0.1105   |
|  |                       |          |          |                     |           |          | 3-31                         | 1200   | 198.270  | 0.1113   |
|  |                       |          |          |                     |           |          |                              | 2400   | 192.935  | 0.1122   |
|  |                       |          |          |                     |           |          | 4- 1                         | 1200   | 187.600  | 0.1130   |
|  |                       |          |          |                     |           |          |                              | 2400   | 182.360  | 0.1138   |
|  |                       |          |          |                     |           |          | 4- 2                         | 1200   | 177.120  | 0.1145   |
|  |                       |          |          |                     |           |          |                              | 2400   | 174.165  | 0.1153   |
|  |                       |          |          |                     |           |          | 4- 3                         | 1200   | 171.210  | 0.1160   |
|  |                       |          |          |                     |           |          |                              | 2400   | 169.015  | 0.1168   |
|  |                       |          |          |                     |           |          | 4- 4                         | 1200   | 166.820  | 0.1175   |
|  |                       |          |          |                     |           |          |                              | 2400   | 164.645  | 0.1182   |
|  |                       |          |          |                     |           |          | 4- 5                         | 1200   | 162.470  | 0.1189   |
|  |                       |          |          |                     |           |          |                              | 2400   | 159.595  | 0.1196   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF MARCH 8 - APRIL 5, 1974  
CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA



## CHICKASAW, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham and Roger Hills Counties, Okla.; and Bempfill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 min. W., 1 mile north of Alex, Okla.; at county road bridge over Washita River at river mile 226.5 approximately 3.8 miles downstream from confluence of Winter Creek.

AREA: 306120.00 acres 4783.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASAW, OKLAHOMA |       |   |       | WATERSBED 700 BEAR ALEX |       |        |       |        |       |      |       |
|---|---|-------------------|-------|--------|-------|---------------------|-------|---|-------|-------------------------|-------|--------|-------|--------|-------|------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                 | Jun   | Jul                                       | Aug   | Sep                     | Oct   | Nov    | Dec   | Annual |       |      |       |
| 1974  | P | 0.14              | 1.68  | 2.16   | 3.77  | 3.54                | 2.02  | 0.85                                      | 5.20  | 3.90                    | 5.05  | 1.39   | 1.46  | 31.16  |       |      |       |
|   | Q | 0.055             | 0.060 | 0.146  | 0.081 | 0.216               | 0.079 | 0.013                                     | 0.104 | 0.123                   | 0.076 | 0.248  | 0.079 | 1.281  |       |      |       |
| STA AV  | P | 1.21              | 1.30  | 1.86   | 2.89  | 4.24                | 2.46  | 2.21                                      | 2.95  | 4.29                    | 2.82  | 1.87   | 0.99  | 29.10  |       |      |       |
|   | Q | 0.050             | 0.043 | 0.068  | 0.096 | 0.140               | 0.145 | 0.047                                     | 0.041 | 0.097                   | 0.084 | 0.097  | 0.054 | 0.963  |       |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                     |       |   |       |                         |       |        |       |        |       |      |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours             |       | Maximum Volume for Selected Time Interval |       | 1 Day                   |       | 2 Days |       | 8 Days |       |      |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                | Vol.  | Date                                      | Vol.  | Date                    | Vol.  | Date   | Vol.  | Date   | Vol.  |      |       |
| 1974  |   | 3-11              | 0.002 | 3-11   | 0.002 | 3-11                | 0.003 | 3-11                                      | 0.009 | 3-11                    | 0.017 | 3-10   | 0.029 | 11- 5  | 0.044 | 4-30 | 0.132 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                     |       |   |       |                         |       |        |       |        |       |      |       |
|   |   | 5- 7              | 0.003 | 5- 7   | 0.003 | 5- 7                | 0.006 | 9-20                                      | 0.019 | 9-20                    | 0.035 | 5- 7   | 0.064 | 5- 6   | 0.114 | 5- 5 | 0.336 |
|   |   | 1969              |       | 1969   |       | 1969                |       | 1962                                      |       | 1962                    |       | 1969   |       | 1969   |       | 1969 |       |

NOTES: Watershed conditions: For area between stations 500 and 700 and not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 23%; row crop - 6%; alfalfa - 4%; pasture and range - 56%; and miscellaneous - 11%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation records began Oct. 1961; Rnnoff records began Sept. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-70 on the reach from Tabler to Alex., and for 77 gages for 1971-74 on the reach from Chickasha to Alex., Okla., for a total period of record (1963-74). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY AIR TEMPERATURE (degrees F) |      |      |      |      |      |      |      |      |      | CHICKASAW, OKLAHOMA WATERSHED 700 NEAR ALEX |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|--|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Day                                    | Jan  |      | Feb  |      | Mar  |      | Apr  |      | May  |   | Jun  |      | Jul  |      | Aug  |      | Sep  |      | Oct  |      | Nov  |     | Dec |     |
|  | max  | min  | max  | min  | max  | min  | max  | min  | max  | min   | max  | min  | max  | min  | max  | min  | max  | min  | max  | min  | max  | min | max | min |
| 1                                      | 20   | 12   | 74   | 30   | 79   | 41   | 80   | 49   | 64   | 59  | 76   | 55   | 96   | 66   | 90   | 65   | 90   | 68   | 78   | 46   | 74   | 50  | 38  | 21  |
| 2                                      | 20   | 12   | 56   | 25   | 80   | 36   | 85   | 47   | 83   | 53  | 83   | 58   | 94   | 72   | 87   | 64   | 69   | 49   | 79   | 47   | 75   | 59  | 51  | 18  |
| 3                                      | 27   | 13   | 56   | 24   | 79   | 57   | 62   | 36   | 68   | 59  | 86   | 61   | 95   | 74   | 78   | 61   | 68   | 47   | 77   | 54   | 67   | 46  | 54  | 20  |
| 4                                      | 34   | 11   | 66   | 21   | 72   | 42   | 56   | 33   | 74   | 55  | 87   | 62   | 84   | 66   | 88   | 63   | 71   | 45   | 78   | 62   | 54   | 37  | 58  | 27  |
| 5                                      | 45   | 16   | 70   | 34   | 74   | 35   | 66   | 27   | 70   | 50  | 89   | 67   | 91   | 61   | 83   | 67   | 76   | 47   | 80   | 62   | 64   | 36  | 55  | 42  |
| 6                                      | 32   | 15   | 34   | 22   | 83   | 45   | 76   | 38   | 77   | 47  | 87   | 66   | 98   | 65   | 76   | 65   | 78   | 51   | 66   | 49   | 57   | 36  | 52  | 44  |
| 7                                      | 40   | 16   | 30   | 18   | 80   | 60   | 76   | 45   | 78   | 53  | 78   | 62   | 94   | 66   | 82   | 66   | 82   | 50   | 55   | 49   | 50   | 46  | 53  | 36  |
| 8                                      | 55   | 19   | 43   | 16   | 74   | 61   | 60   | 36   | 83   | 58  | 96   | 67   | 93   | 66   | 88   | 65   | 82   | 55   | 78   | 50   | 58   | 46  | 38  | 15  |
| 9                                      | 21   | 14   | 47   | 24   | 75   | 53   | 72   | 30   | 87   | 61  | 81   | 56   | 94   | 68   | 92   | 65   | 84   | 60   | 80   | 50   | 52   | 48  | 52  | 14  |
| 10                                     | 21   | 14   | 59   | 21   | 56   | 48   | 64   | 51   | 79   | 62  | 86   | 54   | 96   | 73   | 80   | 64   | 85   | 68   | 80   | 48   | 57   | 42  | 42  | 32  |
| 11                                     | 25   | 11   | 62   | 18   | 67   | 46   | 69   | 53   | 78   | 54  | 90   | 63   | 94   | 70   | 84   | 68   | 92   | 68   | 80   | 60   | 62   | 38  | 41  | 30  |
| 12                                     | 31   | 9    | 72   | 32   | 55   | 40   | 73   | 42   | 82   | 48  | 81   | 60   | 92   | 69   | 88   | 70   | 74   | 54   | 78   | 60   | 58   | 33  | 56  | 28  |
| 13                                     | 48   | 22   | 74   | 33   | 55   | 42   | 81   | 45   | 88   | 69  | 86   | 58   | 94   | 68   | 91   | 68   | 68   | 51   | 72   | 56   | 58   | 38  | 55  | 28  |
| 14                                     | 39   | 32   | 66   | 39   | 69   | 43   | 60   | 39   | 77   | 53  | 96   | 66   | 97   | 67   | 89   | 68   | 74   | 48   | 59   | 46   | 49   | 31  | 53  | 30  |
| 15                                     | 62   | 27   | 42   | 35   | 60   | 39   | 69   | 35   | 89   | 52  | 94   | 66   | 96   | 68   | 92   | 70   | 73   | 54   | 62   | 38   | 52   | 30  | 44  | 24  |
| 16                                     | 70   | 30   | 60   | 35   | 58   | 34   | 61   | 39   | 92   | 74  | 84   | 62   | 94   | 64   | 93   | 73   | 66   | 64   | 77   | 38   | 54   | 38  | 44  | 24  |
| 17                                     | 65   | 34   | 68   | 30   | 72   | 36   | 72   | 37   | 92   | 73  | 78   | 56   | 92   | 70   | 94   | 70   | 71   | 64   | 86   | 42   | 48   | 39  | 56  | 21  |
| 18                                     | 41   | 35   | 69   | 42   | 82   | 48   | 76   | 55   | 89   | 70  | 97   | 68   | 93   | 68   | 94   | 68   | 72   | 63   | 81   | 48   | 56   | 45  | 48  | 25  |
| 19                                     | 38   | 32   | 60   | 28   | 53   | 38   | 78   | 62   | 87   | 68  | 95   | 70   | 96   | 67   | 95   | 70   | 73   | 66   | 72   | 45   | 64   | 40  | 54  | 24  |
| 20                                     | 63   | 30   | 72   | 41   | 42   | 27   | 76   | 62   | 84   | 68  | 96   | 72   | 100  | 71   | 94   | 74   | 70   | 64   | 71   | 43   | 66   | 36  | 53  | 28  |
| 21                                     | 67   | 28   | 46   | 33   | 42   | 20   | 76   | 52   | 82   | 64  | 98   | 74   | 103  | 71   | 93   | 70   | 70   | 51   | 71   | 46   | 69   | 39  | 57  | 26  |
| 22                                     | 56   | 30   | 50   | 31   | 66   | 28   | 71   | 47   | 86   | 64  | 91   | 72   | 107  | 74   | 94   | 68   | 70   | 48   | 66   | 51   | 74   | 47  | 68  | 40  |
| 23                                     | 46   | 29   | 56   | 31   | 33   | 24   | 76   | 42   | 91   | 63  | 80   | 61   | 102  | 72   | 84   | 67   | 61   | 55   | 74   | 50   | 72   | 40  | 59  | 40  |
| 24                                     | 54   | 21   | 35   | 21   | 40   | 25   | 80   | 41   | 77   | 66  | 80   | 56   | 97   | 73   | 90   | 66   | 55   | 48   | 64   | 59   | 48   | 30  | 40  | 22  |
| 25                                     | 54   | 20   | 51   | 18   | 48   | 26   | 78   | 53   | 74   | 61  | 79   | 50   | 95   | 72   | 90   | 65   | 70   | 50   | 66   | 59   | 57   | 26  | 36  | 20  |
| 26                                     | 59   | 30   | 60   | 32   | 65   | 45   | 83   | 60   | 79   | 60  | 80   | 50   | 98   | 68   | 84   | 66   | 76   | 47   | 68   | 53   | 60   | 38  | 35  | 30  |
| 27                                     | 60   | 25   | 68   | 40   | 77   | 44   | 75   | 64   | 84   | 58  | 81   | 52   | 96   | 62   | 80   | 69   | 83   | 58   | 72   | 53   | 56   | 28  | 47  | 28  |
| 28                                     | 55   | 32   | 67   | 37   | 85   | 49   | 80   | 64   | 93   | 68  | 90   | 56   | 95   | 63   | 78   | 68   | 68   | 44   | 70   | 58   | 62   | 33  | 54  | 29  |
| 29                                     | 57   | 24   |      |      | 74   | 40   | 71   | 58   | 96   | 72  | 93   | 66   | 97   | 63   | 80   | 64   | 78   | 40   | 79   | 56   | 33   | 18  | 49  | 33  |
| 30                                     | 69   | 22   |      |      | 82   | 36   | 66   | 58   | 90   | 74  | 97   | 68   | 86   | 66   | 85   | 63   | 80   | 44   | 75   | 55   | 34   | 18  | 40  | 31  |
| 31                                     | 65   | 29   |      |      | 94   | 53   |      |      | 76   | 60  |      |      | 89   | 63   | 90   | 68   |      |      | 68   | 54   |      |     | 43  | 34  |
| AV. MEAN                               | 46   | 22   | 58   | 29   | 67   | 41   | 72   | 47   | 82   | 61  | 87   | 62   | 95   | 68   | 87   | 67   | 74   | 54   | 73   | 51   | 58   | 38  | 49  | 28  |
| STA. AV                                | 34.5 | 43.3 | 53.8 | 59.5 | 71.7 | 74.5 | 81.6 | 77.2 | 84.2 | 82.1  | 88.6 | 81.6 | 91.1 | 91.1 | 88.6 | 84.2 | 82.1 | 73.4 | 62.1 | 47.9 | 38.6 |     |     |     |
|  | 46   | 25   | 53   | 28   | 61   | 38   | 72   | 49   | 80   | 57  | 88   | 67   | 94   | 71   | 91   | 68   | 62   | 60   | 73   | 49   | 63   | 37  | 52  | 30  |

NOTES: Data recorded at South Central Agricultural Research Station. AV and STA AV are rounded to the nearest degree. Mean rounded to the tenth of a degree. STA AV based on records from Sept. 1962 through Dec. 1973. For Chickasha Experiment Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

| 1974 DAILY PRECIPITATION (inches) CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX |      |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Day   | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1   | 0.01 | 0.0  | 0.0  | 0.0  | 0.91 | 0.0  | 0.0  | 0.63 | 0.01 | 0.0  | 0.0  | 0.0  |
| 2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.17 | 0.0  |
| 3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.43 | 0.0  | 0.03 | 0.0  | 0.0  | 0.58 | 0.0  |
| 4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.08 |
| 6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.06 | 0.0  | 0.16 | 0.0  | 0.04 |
| 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.08 | 0.04 | 0.0  |
| 8   | 0.0  | 0.0  | 0.63 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9   | 0.10 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 1.84 | 0.0  | 0.0  | 0.32 | 0.0  |
| 10  | 0.0  | 0.0  | 1.19 | 0.0  | 0.0  | 0.0  | 0.0  | 1.39 | 0.0  | 0.0  | 0.22 | 0.73 |
| 11  | 0.0  | 0.0  | 0.0  | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 |
| 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.02 | 0.01 | 0.0  | 0.0  |
| 13  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.11 | 0.0  | 0.0  |
| 14  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.18 | 0.0  | 0.0  |
| 15  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 1.02 | 0.0  | 0.0  | 0.0  |
| 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  |
| 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |
| 18  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19  | 0.02 | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  |
| 20  | 0.0  | 0.87 | 0.32 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  |
| 21  | 0.0  | 0.63 | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  |
| 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 1.49 | 1.14 | 0.0  | 0.0  |
| 25  | 0.0  | 0.0  | 0.0  | 0.0  | 1.68 | 0.0  | 0.0  | 0.0  | 0.15 | 0.36 | 0.0  | 0.0  |
| 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.05 | 0.0  | 0.0  |
| 27  | 0.01 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.76 | 0.0  | 0.07 | 0.0  | 0.0  |
| 28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.94 | 0.0  | 0.0  |
| 29  | 0.0  | 0.0  | 0.0  | 2.30 | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  |
| 30  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.67 | 0.0  | 0.17 |
| 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.22 |
| TOTAL   | 0.14 | 1.68 | 2.16 | 3.77 | 3.54 | 2.02 | 0.85 | 5.20 | 3.90 | 5.05 | 1.39 | 1.46 |
| STA AV  | 1.21 | 1.30 | 1.86 | 2.89 | 4.24 | 2.46 | 2.21 | 2.95 | 4.29 | 2.82 | 1.87 | 0.99 |

NOTES: STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-70 and for 77 gages for 1971-74.  
STA AV based on 12 yr for total period of record (1963-74).

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX |       |       |        |       |        |        |        |        |        |       |        |       |
|---|-------|-------|--------|-------|--------|--------|--------|--------|--------|-------|--------|-------|
| Day   | Jan   | Feb   | Mar    | Apr   | May    | Jun    | Jul    | Aug    | Sep    | Oct   | Nov    | Dec   |
| 1   | 211.3 | 212.3 | 252.5  | 254.6 | 1016.8 | 1330.0 | 99.6   | 90.9   | 1441.5 | 462.6 | 899.2  | 336.7 |
| 2   | 203.9 | 209.2 | 248.1  | 241.8 | 3051.1 | 582.2  | 93.3   | 81.5   | 700.2  | 410.5 | 740.4  | 333.7 |
| 3   | 201.3 | 208.0 | 244.3  | 228.8 | 2267.7 | 414.6  | 87.4   | 59.6   | 529.4  | 345.6 | 2234.0 | 329.3 |
| 4   | 201.1 | 203.7 | 241.2  | 220.4 | 2486.7 | 370.4  | 85.5   | 47.1   | 437.7  | 293.0 | 1630.4 | 325.0 |
| 5   | 201.1 | 202.3 | 234.7  | 214.2 | 2749.7 | 329.1  | 88.8   | 42.9   | 384.8  | 258.1 | 2338.8 | 322.9 |
| 6   | 202.3 | 197.9 | 231.7  | 206.8 | 1949.5 | 295.2  | 82.3   | 41.9   | 575.9  | 237.7 | 2784.2 | 324.1 |
| 7   | 214.4 | 195.6 | 228.2  | 199.1 | 1282.5 | 535.3  | 75.2   | 44.7   | 683.3  | 230.2 | 2917.7 | 322.3 |
| 8   | 244.0 | 194.2 | 226.2  | 191.2 | 989.0  | 415.7  | 64.9   | 50.3   | 495.0  | 226.0 | 1983.0 | 320.0 |
| 9   | 240.0 | 195.4 | 1796.6 | 190.1 | 822.3  | 385.2  | 57.3   | 53.5   | 416.9  | 221.9 | 1356.7 | 317.4 |
| 10  | 230.0 | 195.6 | 1184.7 | 191.9 | 665.4  | 428.0  | 52.8   | 1296.8 | 368.4  | 215.6 | 1129.2 | 326.1 |
| 11  | 220.5 | 195.4 | 3622.2 | 510.3 | 557.9  | 310.8  | 54.0   | 1359.6 | 336.7  | 205.2 | 955.0  | 400.2 |
| 12  | 213.5 | 194.0 | 1217.8 | 457.3 | 484.5  | 555.4  | 56.1   | 925.1  | 322.0  | 195.9 | 825.1  | 398.7 |
| 13  | 214.9 | 193.6 | 949.2  | 337.3 | 440.8  | 637.9  | 52.9   | 1259.9 | 309.5  | 188.8 | 750.2  | 384.2 |
| 14  | 232.0 | 191.9 | 1224.1 | 265.9 | 407.5  | 423.7  | 49.1   | 630.1  | 301.0  | 185.4 | 699.9  | 366.8 |
| 15  | 250.4 | 190.6 | 881.3  | 244.3 | 373.1  | 292.9  | 46.1   | 362.0  | 295.3  | 186.3 | 649.8  | 358.8 |
| 16  | 260.1 | 191.7 | 678.2  | 430.2 | 340.7  | 237.5  | 43.2   | 258.4  | 322.2  | 186.3 | 605.7  | 356.7 |
| 17  | 271.8 | 193.3 | 560.7  | 420.4 | 307.6  | 415.9  | 39.7   | 192.2  | 312.9  | 184.5 | 662.9  | 348.9 |
| 18  | 252.9 | 201.6 | 483.2  | 345.5 | 283.1  | 370.5  | 36.3   | 143.6  | 296.5  | 184.8 | 1017.9 | 342.9 |
| 19  | 245.0 | 202.8 | 415.3  | 304.0 | 266.9  | 239.5  | 33.0   | 116.1  | 290.4  | 204.1 | 1046.2 | 334.9 |
| 20  | 245.3 | 206.1 | 384.8  | 277.9 | 252.0  | 212.7  | 29.7   | 95.4   | 298.7  | 208.0 | 1022.4 | 331.7 |
| 21  | 242.5 | 656.1 | 384.2  | 288.2 | 237.2  | 181.6  | 26.1   | 81.8   | 316.9  | 194.5 | 996.4  | 328.7 |
| 22  | 241.2 | 982.4 | 368.4  | 332.2 | 231.5  | 172.0  | 22.7   | 77.1   | 452.5  | 183.6 | 992.5  | 322.3 |
| 23  | 235.9 | 569.5 | 352.5  | 300.2 | 234.4  | 163.8  | 20.4   | 79.1   | 1017.4 | 177.0 | 829.9  | 315.7 |
| 24  | 230.2 | 408.4 | 334.9  | 275.3 | 230.7  | 155.9  | 20.6   | 72.6   | 973.4  | 191.7 | 529.8  | 310.9 |
| 25  | 226.3 | 317.0 | 323.5  | 278.5 | 900.9  | 150.5  | 18.4   | 66.0   | 822.5  | 264.5 | 441.0  | 306.6 |
| 26  | 223.9 | 291.8 | 318.9  | 254.5 | 986.2  | 141.1  | 17.1   | 67.6   | 646.6  | 256.2 | 404.0  | 304.1 |
| 27  | 220.7 | 273.6 | 309.5  | 228.8 | 813.0  | 110.1  | 14.2   | 113.2  | 570.3  | 320.2 | 377.0  | 301.8 |
| 28  | 219.7 | 259.6 | 303.3  | 220.4 | 1184.6 | 109.6  | 12.2   | 144.5  | 745.1  | 433.1 | 362.5  | 299.6 |
| 29  | 216.8 | 292.1 | 240.3  | 734.3 | 107.0  | 15.0   | 1377.7 | 663.5  | 475.4  | 349.2 | 297.3  |       |
| 30  | 216.1 | 276.8 | 2296.3 | 526.6 | 103.8  | 101.5  | 2048.4 | 524.4  | 632.7  | 341.4 | 296.8  |       |
| 31  | 214.4 | 268.0 |        | 745.9 |        | 218.7  | 2149.9 |        | 1780.8 |       | 151.7  |       |
| MEAN  | 227.2 | 276.2 | 607.6  | 348.2 | 897.4  | 339.3  | 55.3   | 433.2  | 528.4  | 314.2 | 1062.4 | 326.3 |
| INCHES  | 0.055 | 0.060 | 0.146  | 0.081 | 0.216  | 0.079  | 0.013  | 0.104  | 0.123  | 0.076 | 0.248  | 0.079 |
| STA AV  | 0.050 | 0.043 | 0.068  | 0.096 | 0.140  | 0.145  | 0.047  | 0.041  | 0.097  | 0.084 | 0.097  | 0.054 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV based on 14 yr (1961-74) record period.

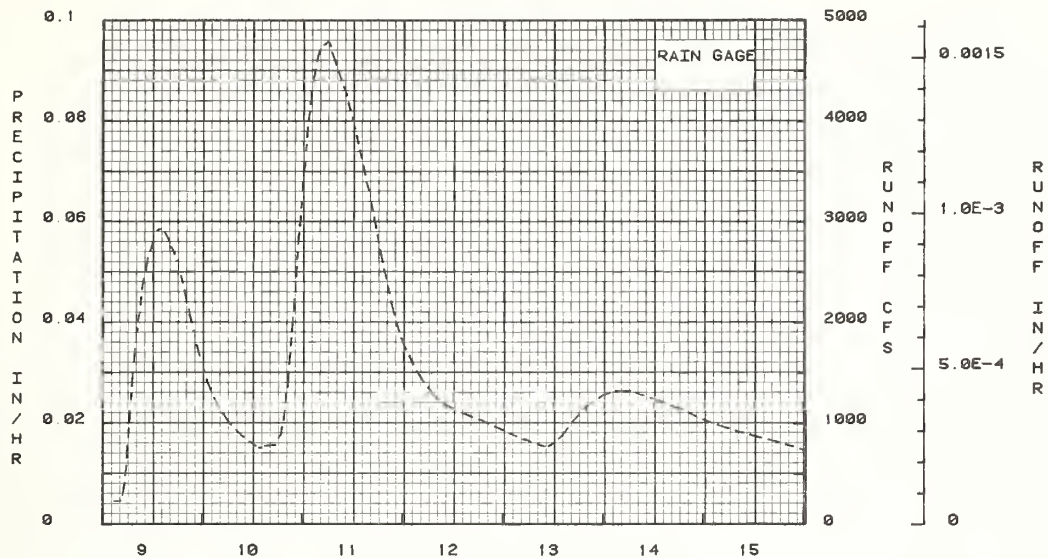
| 1974 SELECTED RUEOFF EVENT       |          |          | CHICKASEA, OKLAHOMA WATERSEED 700 BRAR ALBI |        |           |        |        |          |
|----------------------------------|----------|----------|---|--------|-----------|--------|--------|----------|
| ANTECEDENT CONDITIONS            |          |          | RAINFALL                                    |        |           | RUEOFF |        |          |
| Date                             | Rainfall | Runoff   | Date  | Time   | Intensity | Date   | Time   | Rate     |
| Mo-Day                           | (inches) | (inches) | Mo-Day                                      | of Day | (in/hr)   | Mo-Day | of Day | (cfs)    |
| Acc. (inches)                    |          |          |   |        |           |        |        |          |
| EVENT OF MARCE 9 - APRIL 6, 1974 |          |          |   |        |           |        |        |          |
| 3- 9                             |          | 0.000    |   |        |           | 3- 9   | 253    | 226.100  |
|                                  |          |          |   |        |           |        | 430    | 232.500  |
|                                  |          |          |   |        |           |        | 500    | 286.000  |
|                                  |          |          |   |        |           |        | 523    | 413.198  |
|                                  |          |          |   |        |           |        | 548    | 585.698  |
|                                  |          |          |   |        |           |        | 606    | 780.398  |
|                                  |          |          |   |        |           |        | 623    | 952.298  |
|                                  |          |          |   |        |           |        | 641    | 1126.598 |
|                                  |          |          |   |        |           |        | 700    | 1295.398 |
|                                  |          |          |   |        |           |        | 723    | 1517.299 |
|                                  |          |          |   |        |           |        | 753    | 1741.098 |
|                                  |          |          |   |        |           |        | 823    | 1941.398 |
|                                  |          |          |   |        |           |        | 853    | 2104.698 |
|                                  |          |          |   |        |           |        | 953    | 2431.698 |
|                                  |          |          |   |        |           |        | 1053   | 2640.998 |
|                                  |          |          |   |        |           |        | 1223   | 2843.398 |
|                                  |          |          |   |        |           |        | 1323   | 2929.599 |
|                                  |          |          |   |        |           |        | 1411   | 2932.498 |
|                                  |          |          |   |        |           |        | 1453   | 2894.600 |
|                                  |          |          |   |        |           |        | 1553   | 2817.198 |
|                                  |          |          |   |        |           |        | 1753   | 2605.698 |
|                                  |          |          |   |        |           |        | 1953   | 2276.098 |
|                                  |          |          |   |        |           |        | 2123   | 1991.799 |
|                                  |          |          |   |        |           |        | 2253   | 1734.898 |
|                                  |          |          |   |        |           |        | 2400   | 1575.198 |
|                                  |          |          |   |        |           | 3-10   | 123    | 1388.398 |
|                                  |          |          |   |        |           |        | 353    | 1159.098 |
|                                  |          |          |   |        |           |        | 653    | 982.999  |
|                                  |          |          |   |        |           |        | 953    | 860.299  |
|                                  |          |          |   |        |           |        | 1253   | 773.698  |
|                                  |          |          |   |        |           |        | 1341   | 756.499  |
|                                  |          |          |   |        |           |        | 1411   | 763.598  |
|                                  |          |          |   |        |           |        | 1506   | 776.398  |
|                                  |          |          |   |        |           |        | 1736   | 787.599  |
|                                  |          |          |   |        |           |        | 1853   | 890.298  |
|                                  |          |          |   |        |           |        | 1953   | 1141.698 |
|                                  |          |          |   |        |           |        | 2036   | 1434.398 |
|                                  |          |          |   |        |           |        | 2106   | 1696.499 |
|                                  |          |          |   |        |           |        | 2136   | 1972.398 |
|                                  |          |          |   |        |           |        | 2206   | 2234.398 |
|                                  |          |          |   |        |           |        | 2236   | 2551.298 |
|                                  |          |          |   |        |           |        | 2306   | 2889.198 |
|                                  |          |          |   |        |           |        | 2330   | 3063.498 |
|                                  |          |          |   |        |           |        | 2400   | 3344.698 |
|                                  |          |          |   |        |           | 3-11   | 30     | 3619.099 |
|                                  |          |          |   |        |           |        | 106    | 3946.599 |
|                                  |          |          |   |        |           |        | 153    | 4244.586 |
|                                  |          |          |   |        |           |        | 253    | 4514.281 |
|                                  |          |          |   |        |           |        | 353    | 4708.582 |
|                                  |          |          |   |        |           |        | 453    | 4756.586 |
|                                  |          |          |   |        |           |        | 553    | 4789.484 |
|                                  |          |          |   |        |           |        | 611    | 4773.086 |
|                                  |          |          |   |        |           |        | 636    | 4739.586 |
|                                  |          |          |   |        |           |        | 653    | 4679.586 |
|                                  |          |          |   |        |           |        | 753    | 4551.484 |
|                                  |          |          |   |        |           |        | 1023   | 4253.184 |
|                                  |          |          |   |        |           |        | 1223   | 3927.599 |
|                                  |          |          |   |        |           |        | 1430   | 3539.099 |
|                                  |          |          |   |        |           |        | 1600   | 3261.600 |
|                                  |          |          |   |        |           |        | 1730   | 2938.898 |
|                                  |          |          |   |        |           |        | 1841   | 2671.998 |
|                                  |          |          |   |        |           |        | 2000   | 2427.799 |
|                                  |          |          |   |        |           |        | 2130   | 2146.198 |
|                                  |          |          |   |        |           |        | 2300   | 1916.198 |
|                                  |          |          |   |        |           |        | 2400   | 1797.799 |
|                                  |          |          |   |        |           | 3-12   | 230    | 1580.398 |
|                                  |          |          |   |        |           |        | 500    | 1406.299 |
|                                  |          |          |   |        |           |        | 830    | 1236.198 |
|                                  |          |          |   |        |           |        | 1100   | 1170.098 |
|                                  |          |          |   |        |           |        | 1500   | 1089.398 |
|                                  |          |          |   |        |           |        | 2030   | 998.098  |
|                                  |          |          |   |        |           |        | 2400   | 932.398  |
|                                  |          |          |   |        |           | 3-13   | 500    | 840.599  |
|                                  |          |          |   |        |           |        | 900    | 781.198  |
|                                  |          |          |   |        |           |        | 1000   | 773.299  |

NOTES: To convert runoff in CFS to IE/BE, multiply by 0.0000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

| 1974   |          |          | SELECTED RUNOFF EVENT |        |           | CHICKASHA, OKLAHOMA |        |        | WATERSHED 700 NEAR ALEX |          |  |
|--|----------|----------|-----------------------|--------|-----------|---------------------|--------|--------|-------------------------|----------|--|
| ANTECEDENT CONDITIONS                        |          |          | RAINFALL              |        |           | RUNOFF              |        |        |                         |          |  |
| Date   | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.                | Date   | Time   | Rate                    | Acc.     |  |
| Mo-Day                                       | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)            | Mo-Day | of Day | (cfs)                   | (inches) |  |
| EVENT OF MARCH 9 - APRIL 6, 1974 (CONTINUED) |          |          |                       |        |           |                     |        |        |                         |          |  |
|  |          |          |                       |        |           |                     | 3-13   | 1100   | 777.598                 | 0.0636   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 804.198                 | 0.0638   |  |
|  |          |          |                       |        |           |                     |        | 1430   | 895.198                 | 0.0645   |  |
|  |          |          |                       |        |           |                     |        | 1700   | 1035.498                | 0.0653   |  |
|  |          |          |                       |        |           |                     |        | 2000   | 1170.299                | 0.0664   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 1286.898                | 0.0680   |  |
|  |          |          |                       |        |           |                     | 3-14   | 130    | 1304.698                | 0.0686   |  |
|  |          |          |                       |        |           |                     |        | 300    | 1323.398                | 0.0692   |  |
|  |          |          |                       |        |           |                     |        | 630    | 1324.500                | 0.0707   |  |
|  |          |          |                       |        |           |                     |        | 800    | 1298.398                | 0.0714   |  |
|  |          |          |                       |        |           |                     |        | 1300   | 1228.698                | 0.0734   |  |
|  |          |          |                       |        |           |                     |        | 1900   | 1138.998                | 0.0757   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 1037.499                | 0.0775   |  |
|  |          |          |                       |        |           |                     | 3-15   | 600    | 949.198                 | 0.0794   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 874.999                 | 0.0812   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 813.598                 | 0.0828   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 737.100                 | 0.0843   |  |
|  |          |          |                       |        |           |                     | 3-16   | 200    | 719.100                 | 0.0848   |  |
|  |          |          |                       |        |           |                     |        | 530    | 718.898                 | 0.0856   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 675.600                 | 0.0871   |  |
|  |          |          |                       |        |           |                     |        | 1800   | 649.898                 | 0.0884   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 614.898                 | 0.0896   |  |
|  |          |          |                       |        |           |                     | 3-17   | 600    | 578.300                 | 0.0908   |  |
|  |          |          |                       |        |           |                     |        | 1200   | 557.500                 | 0.0919   |  |
|  |          |          |                       |        |           |                     |        | 1430   | 548.698                 | 0.0923   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 522.398                 | 0.0940   |  |
|  |          |          |                       |        |           |                     | 3-18   | 600    | 499.398                 | 0.0950   |  |
|  |          |          |                       |        |           |                     |        | 1430   | 471.698                 | 0.0963   |  |
|  |          |          |                       |        |           |                     |        | 1730   | 474.300                 | 0.0968   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 444.500                 | 0.0977   |  |
|  |          |          |                       |        |           |                     | 3-19   | 1200   | 410.600                 | 0.0994   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 395.350                 | 0.1010   |  |
|  |          |          |                       |        |           |                     | 3-20   | 1200   | 380.100                 | 0.1025   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 383.850                 | 0.1040   |  |
|  |          |          |                       |        |           |                     | 3-21   | 1200   | 387.600                 | 0.1055   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 377.648                 | 0.1070   |  |
|  |          |          |                       |        |           |                     | 3-22   | 1200   | 367.698                 | 0.1084   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 360.398                 | 0.1098   |  |
|  |          |          |                       |        |           |                     | 3-23   | 1200   | 353.100                 | 0.1112   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 343.550                 | 0.1126   |  |
|  |          |          |                       |        |           |                     | 3-24   | 1200   | 334.000                 | 0.1139   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 328.148                 | 0.1152   |  |
|  |          |          |                       |        |           |                     | 3-25   | 1200   | 322.300                 | 0.1164   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 321.148                 | 0.1177   |  |
|  |          |          |                       |        |           |                     | 3-26   | 1200   | 320.000                 | 0.1189   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 314.300                 | 0.1202   |  |
|  |          |          |                       |        |           |                     | 3-27   | 1200   | 308.600                 | 0.1214   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 306.350                 | 0.1226   |  |
|  |          |          |                       |        |           |                     | 3-28   | 1200   | 304.100                 | 0.1238   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 298.500                 | 0.1249   |  |
|  |          |          |                       |        |           |                     | 3-29   | 1200   | 292.898                 | 0.1261   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 284.148                 | 0.1272   |  |
|  |          |          |                       |        |           |                     | 3-30   | 1200   | 275.398                 | 0.1283   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 272.198                 | 0.1294   |  |
|  |          |          |                       |        |           |                     | 3-31   | 1200   | 268.999                 | 0.1304   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 261.648                 | 0.1314   |  |
|  |          |          |                       |        |           |                     | 4- 1   | 1200   | 254.300                 | 0.1324   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 248.150                 | 0.1334   |  |
|  |          |          |                       |        |           |                     | 4- 2   | 1200   | 242.000                 | 0.1344   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 235.000                 | 0.1353   |  |
|  |          |          |                       |        |           |                     | 4- 3   | 1200   | 228.000                 | 0.1362   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 224.100                 | 0.1371   |  |
|  |          |          |                       |        |           |                     | 4- 4   | 1200   | 220.200                 | 0.1379   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 217.300                 | 0.1388   |  |
|  |          |          |                       |        |           |                     | 4- 5   | 1200   | 214.400                 | 0.1396   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 210.600                 | 0.1405   |  |
|  |          |          |                       |        |           |                     | 4- 6   | 1200   | 206.800                 | 0.1413   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 203.050                 | 0.1421   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.





EVENT OF MARCH 9 - APRIL 6, 1974  
CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

## CHICKASEA, OKLAHOMA WATERSEED 611 NEAR ALEX

LOCATION: Big Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Washita River; Red River Basin. Lat. 35 deg. 57 min. N.; Long. 97 deg. 51 min. W.

AREA: 4845.00 acres 7.57 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASEA, OKLAHOMA |       |   | WATERSEED 611 NEAR ALEX |       |        |        |       |        |       |       |       |
|---|---|-------------------|-------|--------|-------|---------------------|-------|---|-------------------------|-------|--------|--------|-------|--------|-------|-------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                 | Jun   | Jul                                       | Aug                     | Sep   | Oct    | Nov    | Dec   | Annual |       |       |       |
| 1974  | P | 0.16              | 1.81  | 1.58   | 3.80  | 3.93                | 1.61  | 0.50                                      | 4.91                    | 4.65  | 5.68   | 1.51   | 1.65  | 31.79  |       |       |       |
|   | Q | 0.270             | 0.279 | 0.353  | 0.467 | 0.781               | 0.204 | 0.031                                     | 0.090                   | 0.075 | 0.465  | 0.598  | 0.280 | 3.893  |       |       |       |
| STA AV  | P | 1.08              | 1.22  | 1.69   | 2.60  | 3.80                | 2.79  | 1.84                                      | 2.73                    | 4.56  | 2.86   | 2.10   | 1.08  | 28.36  |       |       |       |
|   | Q | 0.127             | 0.117 | 0.165  | 0.209 | 0.307               | 0.303 | 0.073                                     | 0.049                   | 0.227 | 0.218  | 0.289  | 0.131 | 2.214  |       |       |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                     |       |   |                         |       |        |        |       |        |       |       |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours             |       | Maximum Volume for Selected Time Interval |                         |       |        |        |       |        |       |       |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                | Vol.  | 6 Hours                                   | 12 Hours                | 1 Day | 2 Days | 8 Days |       |        |       |       |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                | Vol.  | Date                                      | Vol.                    | Date  | Vol.   | Date   | Vol.  | Date   |       |       |       |
| 1974  |   | 5-25              | 0.075 | 5-25   | 0.067 | 5-25                | 0.113 | 5-25                                      | 0.172                   | 5-25  | 0.205  | 5-25   | 0.254 | 5-25   | 0.309 | 10-28 | 0.605 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                     |       |   |                         |       |        |        |       |        |       |       |       |
|   |   | 5-9               | 0.501 | 5-9    | 0.423 | 5-9                 | 0.557 | 5-9                                       | 0.649                   | 10-30 | 0.673  | 10-30  | 0.881 | 10-30  | 1.158 | 10-30 | 1.605 |
|   |   | 1964              |       | 1964   |       | 1964                |       | 1964                                      |                         | 1972  |        | 1972   |       | 1972   |       | 1972  |       |

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, pp. 69.8-5 (Topography), 69.7-9 (Geologic) and 1965, p. 69.7-21 (Composite). Precipitation data obtained from Thiessen weighted average of 7 gages. Precipitation records began Oct. 1961; runoff records began Dec. 1961. For long-time precipitation records, see National Weather Service at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |  | CHICKASEA, OKLAHOMA WATERSEED 611 NEAR ALEX |  |  |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|---|--|--|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |   |  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | 0.0  | 0.38 | 0.07 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.55 | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  |  |   |  |  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.12 |  |   |  |  |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.59 | 0.0  | 0.01 | 0.0  | 0.11 | 0.0  | 0.07 |  |   |  |  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.25 | 0.02 | 0.0  |  |   |  |  |  |
| 8                                 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 9                                 | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.93 | 0.0  | 0.0  | 0.27 | 0.0  |  |   |  |  |  |
| 10                                | 0.0  | 0.0  | 1.13 | 0.0  | 0.0  | 0.0  | 0.0  | 1.07 | 0.0  | 0.0  | 0.25 | 0.81 |  |   |  |  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 |  |   |  |  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.14 | 0.0  | 0.0  |  |   |  |  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  |  |   |  |  |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.99 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.41 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 18                                | 0.0  | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 19                                | 0.03 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 20                                | 0.0  | 0.68 | 0.39 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 21                                | 0.0  | 0.74 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 22                                | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.80 | 1.20 | 0.0  | 0.0  |  |   |  |  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 2.48 | 0.0  | 0.0  | 0.0  | 0.19 | 0.56 | 0.0  | 0.0  |  |   |  |  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  |  |   |  |  |  |
| 27                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.55 | 0.0  | 0.04 | 0.0  | 0.0  |  |   |  |  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.10 | 0.0  | 0.0  |  |   |  |  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.40 | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  |  |   |  |  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.84 | 0.0  | 0.13 |  |   |  |  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.27 |      |  |   |  |  |  |
| TOTAL                             | 0.16 | 1.81 | 1.58 | 3.80 | 3.93 | 1.61 | 0.50 | 4.91 | 4.65 | 5.68 | 1.51 | 1.65 |  |   |  |  |  |
| STA AV                            | 1.08 | 1.22 | 1.69 | 2.60 | 3.80 | 2.79 | 1.84 | 2.73 | 4.56 | 2.86 | 2.10 | 1.08 |  |   |  |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 7 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

| 1974    | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | CHICKASAW, OKLAHOMA |        |        |        | WATERSHED 611 NEAR ALEX |        |        |  |
|---------|----------------------------|--------|--------|--------|--------|---------------------|--------|--------|--------|-------------------------|--------|--------|--|
| Day     | Jan                        | Feb    | Mar    | Apr    | May    | Jun                 | Jul    | Aug    | Sep    | Oct                     | Nov    | Dec    |  |
| 1       | 1.800                      | 1.590  | 1.774  | 1.604  | 15.367 | 2.831               | 0.430  | 0.121  | 0.316  | 0.345                   | 11.737 | 1.700  |  |
| 2       | 1.800                      | 1.590  | 1.787  | 1.590  | 9.355  | 2.389               | 0.381  | 0.146  | 0.561  | 0.375                   | 9.015  | 1.700  |  |
| 3       | 1.814                      | 1.590  | 1.712  | 1.566  | 6.885  | 2.572               | 0.375  | 0.150  | 0.407  | 0.380                   | 15.781 | 1.700  |  |
| 4       | 1.896                      | 1.590  | 1.686  | 1.424  | 5.281  | 2.120               | 0.537  | 0.152  | 0.345  | 0.380                   | 10.682 | 1.700  |  |
| 5       | 1.910                      | 1.577  | 1.604  | 1.411  | 4.024  | 1.887               | 0.480  | 0.171  | 0.335  | 0.375                   | 7.597  | 1.726  |  |
| 6       | 1.910                      | 1.502  | 1.577  | 1.479  | 3.389  | 3.616               | 0.387  | 0.196  | 0.305  | 0.345                   | 6.144  | 1.857  |  |
| 7       | 1.870                      | 1.490  | 1.502  | 1.479  | 2.714  | 2.803               | 0.340  | 0.196  | 0.300  | 0.340                   | 4.871  | 1.712  |  |
| 8       | 1.617                      | 1.490  | 1.502  | 1.411  | 2.290  | 2.124               | 0.301  | 0.161  | 0.296  | 0.340                   | 3.866  | 1.604  |  |
| 9       | 1.502                      | 1.490  | 1.577  | 1.424  | 2.045  | 1.730               | 0.269  | 1.048  | 0.277  | 0.340                   | 3.665  | 1.590  |  |
| 10      | 1.490                      | 1.490  | 8.810  | 1.594  | 1.911  | 1.492               | 0.231  | 10.317 | 0.292  | 0.345                   | 3.942  | 2.301  |  |
| 11      | 1.479                      | 1.490  | 6.599  | 6.302  | 1.801  | 1.324               | 0.200  | 0.404  | 0.269  | 0.375                   | 3.464  | 3.702  |  |
| 12      | 1.422                      | 1.479  | 4.372  | 2.305  | 1.699  | 1.290               | 0.174  | 0.279  | 0.240  | 0.386                   | 3.104  | 2.832  |  |
| 13      | 1.531                      | 1.411  | 3.064  | 2.031  | 1.580  | 1.219               | 0.167  | 0.235  | 0.265  | 0.424                   | 2.795  | 2.200  |  |
| 14      | 1.872                      | 1.400  | 2.550  | 1.842  | 1.411  | 1.141               | 0.155  | 0.226  | 0.279  | 0.436                   | 2.451  | 2.030  |  |
| 15      | 2.015                      | 1.387  | 2.272  | 1.870  | 1.302  | 1.120               | 0.167  | 0.200  | 0.401  | 0.480                   | 2.800  | 1.925  |  |
| 16      | 2.030                      | 1.312  | 2.060  | 1.700  | 1.219  | 1.091               | 0.167  | 0.174  | 0.771  | 0.517                   | 2.400  | 1.896  |  |
| 17      | 2.030                      | 1.362  | 2.015  | 1.516  | 1.141  | 1.247               | 0.149  | 0.170  | 0.482  | 0.492                   | 2.400  | 1.814  |  |
| 18      | 2.015                      | 1.699  | 1.925  | 1.490  | 1.130  | 1.131               | 0.124  | 0.167  | 0.392  | 0.530                   | 2.400  | 1.787  |  |
| 19      | 1.925                      | 1.529  | 1.925  | 1.490  | 1.120  | 0.972               | 0.120  | 0.159  | 0.436  | 0.581                   | 2.369  | 1.712  |  |
| 20      | 1.910                      | 1.527  | 2.015  | 1.479  | 1.070  | 0.847               | 0.117  | 0.197  | 0.531  | 0.647                   | 2.166  | 1.700  |  |
| 21      | 1.896                      | 10.887 | 2.015  | 1.399  | 1.120  | 0.821               | 0.102  | 0.222  | 0.594  | 0.754                   | 2.045  | 1.700  |  |
| 22      | 1.814                      | 4.014  | 1.911  | 1.312  | 1.120  | 0.769               | 0.100  | 0.200  | 0.412  | 0.821                   | 2.030  | 1.700  |  |
| 23      | 1.787                      | 2.836  | 1.801  | 1.300  | 1.070  | 0.752               | 0.100  | 0.212  | 0.380  | 0.830                   | 2.001  | 1.686  |  |
| 24      | 1.712                      | 2.009  | 1.725  | 1.300  | 1.100  | 0.707               | 0.100  | 0.406  | 2.754  | 2.547                   | 1.829  | 1.604  |  |
| 25      | 1.712                      | 1.814  | 1.775  | 1.290  | 48.888 | 0.700               | 0.100  | 0.239  | 1.521  | 2.555                   | 1.800  | 1.604  |  |
| 26      | 1.775                      | 1.800  | 1.712  | 1.230  | 12.561 | 0.692               | 0.097  | 0.301  | 0.535  | 2.067                   | 1.800  | 1.686  |  |
| 27      | 1.712                      | 1.774  | 1.700  | 1.220  | 8.710  | 0.640               | 0.082  | 0.689  | 0.430  | 1.130                   | 1.800  | 1.700  |  |
| 28      | 1.700                      | 1.642  | 1.700  | 1.220  | 6.184  | 0.581               | 0.080  | 0.366  | 0.386  | 16.632                  | 1.774  | 1.700  |  |
| 29      | 1.700                      | 1.700  | 1.700  | 16.258 | 4.220  | 0.530               | 0.082  | 0.300  | 0.375  | 4.337                   | 1.630  | 1.700  |  |
| 30      | 1.686                      | 1.700  | 1.700  | 31.577 | 3.151  | 0.480               | 0.097  | 0.296  | 0.345  | 35.755                  | 1.686  | 1.741  |  |
| 31      | 1.604                      | 1.686  | 1.686  | 4.131  | 4.131  |                     | 0.102  | 0.274  |        | 18.885                  |        | 0.974  |  |
| MEAN    | 1.7722                     | 2.0262 | 2.3148 | 3.1704 | 5.1287 | 1.3874              | 0.2038 | 0.5928 | 0.5079 | 3.0564                  | 4.0548 | 1.8382 |  |
| INCREAS | 0.270                      | 0.279  | 0.353  | 0.467  | 0.781  | 0.204               | 0.031  | 0.090  | 0.075  | 0.465                   | 0.598  | 0.280  |  |
| STA AV  | 0.127                      | 0.117  | 0.165  | 0.209  | 0.307  | 0.303               | 0.073  | 0.049  | 0.227  | 0.218                   | 0.289  | 0.131  |  |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.004913. To convert discharge in inches to AC/FT, multiply by 403.75. STA AV based on 14 yr (1961-1974) record period.

| 1974                         | SELECTED RUNOFF EVENT |          |           | CHICKASAW, OKLAHOMA |           |          |        | WATERSHED 611 NEAR ALEX |         |          |  |
|------------------------------|-----------------------|----------|-----------|---------------------|-----------|----------|--------|-------------------------|---------|----------|--|
| ANTECEDENT CONDITIONS        |                       |          | RAINFALL  |                     |           |          | RUNOFF |                         |         |          |  |
| Date                         | Rainfall              | Runoff   | Date      | Time                | Intensity | Acc.     | Date   | Time                    | Rate    | Acc.     |  |
| Mo-Day                       | (inches)              | (inches) | Mo-Day    | of Day              | (in/hr)   | (inches) | Mo-Day | of Day                  | (cfs)   | (inches) |  |
| EVENT OF MAY 25 - 28, 1974   |                       |          |           |                     |           |          |        |                         |         |          |  |
| RG 000170                    |                       |          | RG 000170 |                     |           |          |        |                         |         |          |  |
| 5-25                         | 1.32                  | 0.035    | 5-25      | 900                 | 0.0       | 0.0      | 5-25   | 900                     | 19.650  | 0.0      |  |
|                              |                       |          |           | 928                 | 0.0214    | 0.01     |        | 1000                    | 11.400  | 0.0032   |  |
|                              |                       |          |           | 957                 | 0.0207    | 0.02     |        | 1100                    | 7.840   | 0.0051   |  |
|                              |                       |          |           | 1022                | 0.0       | 0.02     |        | 1230                    | 6.590   | 0.0074   |  |
|                              |                       |          |           | 1049                | 0.0444    | 0.04     |        | 1241                    | 15.790  | 0.0078   |  |
| WATERSHED CONDITIONS:        |                       |          |           | 1101                | 0.1000    | 0.06     |        | 1248                    | 65.930  | 0.0088   |  |
| From a revised 1971 survey;  |                       |          |           | 1105                | 0.9000    | 0.12     |        | 1300                    | 87.560  | 0.0119   |  |
| sowed crop - 3%; alfalfa -   |                       |          |           | 1122                | 0.0353    | 0.13     |        | 1330                    | 51.040  | 0.0190   |  |
| 2%; pasture and range - 95%. |                       |          |           | 1149                | 0.0222    | 0.14     |        | 1336                    | 69.770  | 0.0202   |  |
|                              |                       |          |           | 1214                | 0.0240    | 0.15     |        | 1341                    | 115.580 | 0.0218   |  |
|                              |                       |          |           | 1216                | 4.2000    | 0.29     |        | 1348                    | 193.270 | 0.0255   |  |
|                              |                       |          |           | 1218                | 6.9000    | 0.52     |        | 1353                    | 264.520 | 0.0294   |  |
|                              |                       |          |           | 1221                | 4.0000    | 0.72     |        | 1411                    | 344.438 | 0.0481   |  |
|                              |                       |          |           | 1223                | 7.5000    | 0.97     |        | 1423                    | 365.100 | 0.0626   |  |
|                              |                       |          |           | 1229                | 1.8000    | 1.15     |        | 1430                    | 357.259 | 0.0713   |  |
|                              |                       |          |           | 1234                | 0.7200    | 1.21     |        | 1500                    | 282.198 | 0.1040   |  |
|                              |                       |          |           |                     |           |          |        | 1530                    | 193.270 | 0.1283   |  |
|                              |                       |          |           |                     |           |          |        | 1600                    | 126.430 | 0.1447   |  |
|                              |                       |          |           |                     |           |          |        | 1630                    | 87.560  | 0.1556   |  |
|                              |                       |          |           |                     |           |          |        | 1700                    | 65.930  | 0.1635   |  |
|                              |                       |          |           |                     |           |          |        | 1800                    | 41.870  | 0.1745   |  |
|                              |                       |          |           |                     |           |          |        | 1930                    | 28.360  | 0.1853   |  |
|                              |                       |          |           |                     |           |          |        | 2100                    | 22.500  | 0.1931   |  |
|                              |                       |          |           |                     |           |          |        | 2400                    | 16.600  | 0.2051   |  |
|                              |                       |          |           |                     |           |          | 5-26   | 100                     | 15.790  | 0.2084   |  |
|                              |                       |          |           |                     |           |          |        | 218                     | 15.790  | 0.2126   |  |
|                              |                       |          |           |                     |           |          |        | 1200                    | 11.740  | 0.2399   |  |
|                              |                       |          |           |                     |           |          |        | 2400                    | 10.130  | 0.2668   |  |
|                              |                       |          |           |                     |           |          | 5-27   | 1200                    | 8.660   | 0.2899   |  |
|                              |                       |          |           |                     |           |          |        | 2400                    | 7.390   | 0.3096   |  |

NOTES: To convert runoff in CFS to IN/HH, multiply by 0.0002047.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047





## CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX

LOCATION: Little Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Big Dry Creek, Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 33, T. 6 N., R. 6 W., lat. 35 deg. 57 min. N.; long. 97 deg. 51 min. W.; 5 miles Northwest of Alex, Okla.; on state road 19 bridge over little Dry Creek.

AREA: 563.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |                        |       |             |             |              | CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX |   |              |               |               |            |            |             |             |             |             |
|---|------------------------|-------|-------------|-------------|--------------|---|---|--------------|---------------|---------------|------------|------------|-------------|-------------|-------------|-------------|
|   |                        | Jan   | Feb         | Mar         | Apr          | May   | Jun                                       | Jul          | Aug           | Sep           | Oct        | Nov        | Dec         | Annual      |             |             |
| 1974  | P                      | 0.17  | 1.67        | 1.40        | 3.66         | 3.63  | 1.45                                      | 0.43         | 4.45          | 4.38          | 5.36       | 1.12       | 1.62        | 29.34       |             |             |
|   | Q                      | 0.082 | 0.105       | 0.098       | 0.216        | 0.418                                       | 0.040                                     | 0.006        | 0.100         | 0.012         | 0.218      | 0.076      | 0.055       | 1.425       |             |             |
| STA AV  | P                      | 1.03  | 1.16        | 1.63        | 2.82         | 3.72  | 2.79                                      | 1.91         | 2.80          | 4.45          | 2.83       | 2.00       | 1.06        | 28.20       |             |             |
|   | Q                      | 0.084 | 0.058       | 0.062       | 0.169        | 0.139                                       | 0.275                                     | 0.066        | 0.054         | 0.165         | 0.134      | 0.085      | 0.105       | 1.397       |             |             |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |                        |       |             |             |              |   |   |              |               |               |            |            |             |             |             |             |
|   | Maximum Discharge Date |       | 1 Hour Date | 1 Hour Vol. | 2 Hours Date | 2 Hours Vol.                                | Maximum Volume for Selected Time Interval |              |               |               |            |            |             |             |             |             |
|   |                        |       |             |             |              |   | 6 Hours Date                              | 6 Hours Vol. | 12 Hours Date | 12 Hours Vol. | 1 Day Date | 1 Day Vol. | 2 Days Date | 2 Days Vol. | 8 Days Date | 8 Days Vol. |
| 1974  | 5-25                   | 0.305 | 5-25        | 0.178       | 5-25         | 0.196                                       | 5-25                                      | 0.211        | 5-25          | 0.228         | 5-25       | 0.262      | 5-25        | 0.309       | 5-24        | 0.347       |
| MAXIMUMS FOR PERIOD OF RECORD   |                        |       |             |             |              |   |   |              |               |               |            |            |             |             |             |             |
|   | 10-30 1972             | 0.571 | 10-30 1972  | 0.416       | 10-30 1972   | 0.591                                       | 6-23 1963                                 | 0.733        | 6-23 1963     | 0.756         | 10-30 1972 | 0.837      | 10-30 1972  | 0.905       | 5-31 1973   | 1.148       |

NOTES: Watershed conditions: From a revised 1971 survey; alfalfa - 3%; pasture and range - 97%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.8-5 (Topography) and p. 69.7-9 (Geologic); 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 2 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Nov. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX |      |      |      |      |      |      |
|--------|------------------------------|------|------|------|------|------|---|------|------|------|------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct  | Nov  | Dec  |      |
| 1      | 0.01                         | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.0   | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.0  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0   | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.35  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 | 0.0   | 0.03 | 0.0  | 0.10 | 0.0  | 0.0  | 0.03 |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0   | 0.0  | 0.0  | 0.12 | 0.02 | 0.0  | 0.0  |
| 8      | 0.0                          | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9      | 0.13                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.93 | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  |
| 10     | 0.0                          | 0.0  | 0.97 | 0.0  | 0.0  | 0.0  | 0.0   | 1.01 | 0.0  | 0.0  | 0.24 | 0.82 | 0.0  |
| 11     | 0.0                          | 0.0  | 0.0  | 1.21 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0   | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.11 | 0.11 | 0.0  | 0.0  | 0.0  |
| 14     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  |
| 15     | 0.0                          | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.08  | 0.0  | 1.04 | 0.0  | 0.0  | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0   | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  |
| 18     | 0.0                          | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19     | 0.03                         | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0   | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |
| 20     | 0.0                          | 0.62 | 0.35 | 0.01 | 0.0  | 0.0  | 0.0   | 0.0  | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  |
| 21     | 0.0                          | 0.65 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0   | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.67 | 1.04 | 0.0  | 0.0  | 0.0  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 2.46 | 0.0  | 0.0   | 0.0  | 0.16 | 0.46 | 0.0  | 0.0  | 0.0  |
| 26     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.45 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.53 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.94 | 0.0  | 0.0  | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 2.32 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  |
| 30     | 0.0                          | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.08 | 0.0  | 0.13 | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.48 |      |      | 0.0   | 0.0  |      | 0.31 |      | 0.26 |      |
| TOTAL  | 0.17                         | 1.67 | 1.40 | 3.66 | 3.63 | 1.45 | 0.43  | 4.45 | 4.38 | 5.36 | 1.12 | 1.62 |      |
| STA AV | 1.03                         | 1.16 | 1.63 | 2.82 | 3.72 | 2.79 | 1.91  | 2.80 | 4.45 | 2.83 | 2.00 | 1.06 |      |

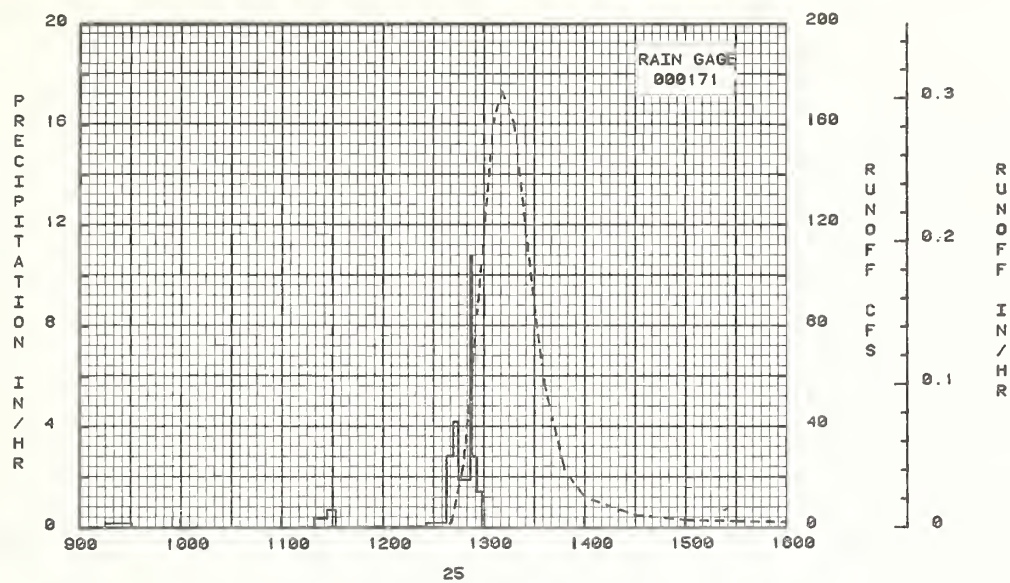
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 2 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.050  | 0.070  | 0.059  | 0.030  | 0.616  | 0.032  | 0.012  | 0.0    | 0.0    | 0.010  | 0.116  | 0.040  |
| 2   | 0.047  | 0.070  | 0.060  | 0.029  | 0.319  | 0.024  | 0.010  | 0.0    | 0.0    | 0.009  | 0.097  | 0.040  |
| 3   | 0.032  | 0.069  | 0.061  | 0.021  | 0.136  | 0.037  | 0.011  | 0.0    | 0.0    | 0.002  | 0.129  | 0.040  |
| 4   | 0.030  | 0.061  | 0.067  | 0.020  | 0.074  | 0.039  | 0.019  | 0.0    | 0.0    | 0.007  | 0.101  | 0.040  |
| 5   | 0.030  | 0.059  | 0.060  | 0.020  | 0.051  | 0.031  | 0.020  | 0.0    | 0.0    | 0.001  | 0.072  | 0.040  |
| 6   | 0.030  | 0.051  | 0.051  | 0.020  | 0.039  | 0.109  | 0.019  | 0.0    | 0.0    | 0.001  | 0.061  | 0.040  |
| 7   | 0.030  | 0.050  | 0.050  | 0.020  | 0.022  | 0.072  | 0.010  | 0.0    | 0.0    | 0.009  | 0.060  | 0.039  |
| 8   | 0.029  | 0.051  | 0.050  | 0.020  | 0.020  | 0.050  | 0.001  | 0.0    | 0.0    | 0.010  | 0.061  | 0.031  |
| 9   | 0.021  | 0.057  | 0.050  | 0.021  | 0.020  | 0.031  | 0.0    | 1.880  | 0.0    | 0.010  | 0.071  | 0.034  |
| 10  | 0.020  | 0.051  | 0.463  | 0.029  | 0.020  | 0.021  | 0.0    | 0.427  | 0.0    | 0.009  | 0.084  | 0.057  |
| 11  | 0.021  | 0.050  | 0.240  | 0.258  | 0.020  | 0.020  | 0.0    | 0.032  | 0.0    | 0.002  | 0.064  | 0.067  |
| 12  | 0.029  | 0.050  | 0.129  | 0.060  | 0.022  | 0.022  | 0.0    | 0.012  | 0.0    | 0.009  | 0.060  | 0.060  |
| 13  | 0.037  | 0.050  | 0.075  | 0.040  | 0.037  | 0.036  | 0.0    | 0.009  | 0.0    | 0.010  | 0.059  | 0.051  |
| 14  | 0.082  | 0.050  | 0.061  | 0.022  | 0.039  | 0.031  | 0.001  | 0.001  | 0.0    | 0.010  | 0.051  | 0.049  |
| 15  | 0.091  | 0.050  | 0.059  | 0.020  | 0.031  | 0.030  | 0.009  | 0.0    | 0.001  | 0.009  | 0.050  | 0.041  |
| 16  | 0.099  | 0.050  | 0.051  | 0.020  | 0.030  | 0.034  | 0.010  | 0.0    | 0.007  | 0.001  | 0.050  | 0.040  |
| 17  | 0.100  | 0.055  | 0.050  | 0.020  | 0.030  | 0.052  | 0.009  | 0.0    | 0.001  | 0.0    | 0.050  | 0.040  |
| 18  | 0.100  | 0.081  | 0.050  | 0.020  | 0.030  | 0.031  | 0.001  | 0.0    | 0.0    | 0.0    | 0.050  | 0.040  |
| 19  | 0.100  | 0.061  | 0.052  | 0.021  | 0.030  | 0.014  | 0.0    | 0.0    | 0.0    | 0.0    | 0.050  | 0.040  |
| 20  | 0.099  | 0.070  | 0.067  | 0.029  | 0.027  | 0.019  | 0.0    | 0.0    | 0.0    | 0.0    | 0.050  | 0.040  |
| 21  | 0.091  | 0.762  | 0.069  | 0.029  | 0.012  | 0.020  | 0.0    | 0.0    | 0.0    | 0.0    | 0.050  | 0.040  |
| 22  | 0.087  | 0.185  | 0.061  | 0.021  | 0.010  | 0.020  | 0.0    | 0.0    | 0.0    | 0.0    | 0.049  | 0.040  |
| 23  | 0.072  | 0.105  | 0.057  | 0.020  | 0.014  | 0.020  | 0.0    | 0.0    | 0.015  | 0.002  | 0.041  | 0.040  |
| 24  | 0.070  | 0.064  | 0.042  | 0.020  | 0.036  | 0.020  | 0.0    | 0.0    | 0.099  | 0.019  | 0.040  | 0.039  |
| 25  | 0.070  | 0.051  | 0.040  | 0.020  | 5.962  | 0.020  | 0.0    | 0.0    | 0.071  | 0.027  | 0.040  | 0.032  |
| 26  | 0.072  | 0.050  | 0.041  | 0.020  | 1.231  | 0.020  | 0.0    | 0.0    | 0.034  | 0.021  | 0.040  | 0.039  |
| 27  | 0.087  | 0.050  | 0.049  | 0.020  | 0.645  | 0.020  | 0.0    | 0.0    | 0.020  | 0.020  | 0.040  | 0.040  |
| 28  | 0.087  | 0.051  | 0.050  | 0.020  | 0.206  | 0.020  | 0.0    | 0.0    | 0.011  | 0.519  | 0.040  | 0.041  |
| 29  | 0.072  |        | 0.047  | 3.093  | 0.067  | 0.021  | 0.0    | 0.0    | 0.010  | 0.050  | 0.040  | 0.049  |
| 30  | 0.070  |        | 0.032  | 1.110  | 0.030  | 0.026  | 0.0    | 0.0    | 0.010  | 4.134  | 0.040  | 0.051  |
| 31  | 0.070  |        | 0.030  |        | 0.051  |        | 0.0    | 0.0    |        | 0.245  |        | 0.029  |
| MEAN  | 0.0623 | 0.0884 | 0.0750 | 0.1705 | 0.3187 | 0.0315 | 0.0043 | 0.0762 | 0.0093 | 0.1661 | 0.0602 | 0.0423 |
| INCHES  | 0.082  | 0.105  | 0.098  | 0.216  | 0.418  | 0.040  | 0.006  | 0.100  | 0.012  | 0.218  | 0.076  | 0.055  |
| STA AV  | 0.084  | 0.058  | 0.062  | 0.169  | 0.139  | 0.275  | 0.066  | 0.054  | 0.165  | 0.134  | 0.085  | 0.105  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04228. To convert discharge in inches to AC-FT, multiply by 46.92. STA AV based on 14 yr (1961-74) record period.

| 1974  | SELECTED RUNOFF EVENT |          |          | CHICKASHA, OKLAHOMA |           |          | WATERSHED 612 NEAR ALEX |        |         |          |
|---|-----------------------|----------|----------|---------------------|-----------|----------|-------------------------|--------|---------|----------|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL |                     |           |          | RUNOFF                  |        |         |          |
| Date  | Rainfall              | Runoff   | Date     | Time                | Intensity | Acc.     | Date                    | Time   | Rate    | Acc.     |
| Mo-Day  | (inches)              | (inches) | Mo-Day   | of Day              | (in/hr)   | (inches) | Mo-Day                  | of Day | (cfs)   | (inches) |
| EVENT OF MAY 25, 1974   |                       |          |          |                     |           |          |                         |        |         |          |
| 5-25  | RG 000171<br>1.15     | 0.025    | 5-25     | RG 000171           |           |          |                         |        |         |          |
|   |                       |          |          | 915                 | 0.0       | 0.0      | 5-25                    | 1118   | 0.050   | 0.0      |
|   |                       |          |          | 931                 | 0.1875    | 0.05     |                         | 1123   | 0.100   | 0.0000   |
|   |                       |          |          | 952                 | 0.0286    | 0.06     |                         | 1130   | 0.360   | 0.0001   |
|   |                       |          |          | 1024                | 0.0187    | 0.07     |                         | 1223   | 0.180   | 0.0005   |
|   |                       |          |          | 1052                | 0.0214    | 0.08     |                         | 1236   | 0.180   | 0.0005   |
| WATERSHED CONDITIONS:<br>From a revised 1971 survey;<br>alfalfa - 3%; pasture and<br>range - 97%. |                       |          |          | 1119                | 0.0222    | 0.09     |                         | 1241   | 2.070   | 0.0007   |
|   |                       |          |          | 1127                | 0.3750    | 0.14     |                         | 1248   | 24.770  | 0.0035   |
|   |                       |          |          | 1132                | 0.7200    | 0.20     |                         | 1253   | 59.730  | 0.0097   |
|   |                       |          |          | 1156                | 0.0250    | 0.21     |                         | 1300   | 115.810 | 0.0277   |
|   |                       |          |          | 1226                | 0.0600    | 0.24     |                         | 1306   | 162.520 | 0.0522   |
|   |                       |          |          | 1238                | 0.2000    | 0.28     |                         | 1311   | 173.120 | 0.0769   |
|   |                       |          |          | 1242                | 2.8500    | 0.47     |                         | 1318   | 160.450 | 0.1111   |
|   |                       |          |          | 1245                | 4.2000    | 0.68     |                         | 1330   | 88.310  | 0.1550   |
|   |                       |          |          | 1252                | 1.8857    | 0.90     |                         | 1336   | 57.260  | 0.1678   |
|   |                       |          |          | 1253                | 10.8000   | 1.08     |                         | 1348   | 22.810  | 0.1819   |
|   |                       |          |          | 1256                | 2.8000    | 1.22     |                         | 1400   | 11.960  | 0.1880   |
|   |                       |          |          | 1259                | 1.4000    | 1.29     |                         | 1430   | 4.910   | 0.1954   |
|   |                       |          |          |                     |           |          |                         | 1500   | 2.800   | 0.1988   |
|   |                       |          |          |                     |           |          |                         | 1530   | 2.300   | 0.2011   |
|   |                       |          |          |                     |           |          |                         | 1700   | 1.850   | 0.2066   |
|   |                       |          |          |                     |           |          |                         | 2400   | 1.560   | 0.2276   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0017615.



## CHICKASAW, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--RW1/4 sec. 34, T. 7 R., R. 10 W., lat. 35 deg. 03 min. N.; long. 98 deg. 15 min. W.; 2 miles South of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 16634.00 acres 26.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASAW, OKLAHOMA WATERSHED 111 NEAR ANADARKO |       |         |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---|-------|---------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May   | Jun   | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.10              | 2.16  | 3.11   | 3.37  | 4.60  | 1.67  | 0.15    | 5.46  | 2.71     | 4.41  | 2.17  | 1.25  | 31.16  |       |        |       |
|   | Q | 0.103             | 0.160 | 0.336  | 0.121 | 0.230   | 0.051 | 0.002   | 0.020 | 0.021    | 0.094 | 0.214 | 0.131 | 1.485  |       |        |       |
| STA AV  | P | 0.77              | 1.04  | 1.85   | 2.71  | 3.86  | 2.78  | 1.84    | 2.73  | 4.07     | 2.41  | 1.84  | 0.89  | 26.79  |       |        |       |
|   | Q | 0.072             | 0.080 | 0.133  | 0.148 | 0.166   | 0.090 | 0.028   | 0.015 | 0.044    | 0.039 | 0.075 | 0.068 | 0.957  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |   |       |         |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours   |       | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date  | Vol.  | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3- 8              | 0.013 | 3- 8   | 0.012 | 3- 8  | 0.022 | 3- 8    | 0.042 | 5- 1     | 0.055 | 5- 1  | 0.071 | 3- 8   | 0.110 | 3- 8   | 0.217 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |   |       |         |       |          |       |       |       |        |       |        |       |
|   |   | 5-10              | 0.046 | 5-10   | 0.044 | 5-10  | 0.080 | 5-10    | 0.135 | 5-10     | 0.149 | 5- 9  | 0.234 | 5- 9   | 0.295 | 5-31   | 0.382 |
|   |   | 1964              |       | 1964   |       | 1964  |       | 1964    |       | 1964     |       | 1964  |       | 1964   |       | 1973   |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.7-21 and 1962, USDA Misc. Pnb. 1070, p. 69.7-9 (Geologic) and p. 69.10-4 (Topography). Precipitation data obtained from a Thiessen weighted average of 6 gages on the watershed. Precipitation records began Oct. 1961; runoff records began June 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   |  | DAILY PRECIPITATION (inches) |      |      |      |      | CHICKASAW, OKLAHOMA WATERSHED 111 NEAR ANADARKO |      |      |      |      |      |      |
|--------|--|------------------------------|------|------|------|------|---|------|------|------|------|------|------|
| Day    |  | Jan                          | Feb  | Mar  | Apr  | May  | Jun   | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1      |  | 0.01                         | 0.0  | 0.0  | 0.0  | 1.38 | 0.0   | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.06 | 0.0  | 1.24 | 0.0  |
| 3      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.40  | 0.0  | 0.03 | 0.0  | 0.0  | 0.25 | 0.0  |
| 4      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.01 |
| 6      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.41  | 0.0  | 0.05 | 0.0  | 0.08 | 0.0  | 0.08 |
| 7      |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.04  | 0.0  | 0.0  | 0.0  | 0.02 | 0.06 | 0.0  |
| 8      |  | 0.0                          | 0.0  | 1.81 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9      |  | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.91 | 0.0  | 0.0  | 0.40 | 0.0  |
| 10     |  | 0.0                          | 0.0  | 1.05 | 0.0  | 0.0  | 0.0   | 0.0  | 0.85 | 0.0  | 0.0  | 0.17 | 0.61 |
| 11     |  | 0.0                          | 0.0  | 0.0  | 1.20 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 |
| 12     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |
| 14     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  |
| 15     |  | 0.0                          | 0.09 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.44 | 0.0  | 0.0  | 0.0  |
| 16     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |
| 17     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.80  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |
| 18     |  | 0.0                          | 0.02 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19     |  | 0.01                         | 0.0  | 0.0  | 0.12 | 0.0  | 0.0   | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  | 0.0  |
| 20     |  | 0.0                          | 1.65 | 0.25 | 0.03 | 0.0  | 0.0   | 0.0  | 0.0  | 0.37 | 0.0  | 0.0  | 0.0  |
| 21     |  | 0.0                          | 0.40 | 0.0  | 0.0  | 0.54 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.14 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.0   | 0.0  | 0.09 | 1.21 | 1.17 | 0.0  | 0.0  |
| 25     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 1.54 | 0.0   | 0.0  | 0.0  | 0.08 | 0.06 | 0.0  | 0.0  |
| 26     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27     |  | 0.04                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.92 | 0.0  | 0.01 | 0.0  | 0.0  |
| 28     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.91 | 0.0  | 0.0  |
| 29     |  | 0.0                          | 0.0  | 0.0  | 1.99 | 0.0  | 0.0   | 0.08 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |
| 30     |  | 0.0                          | 0.0  | 0.0  | 0.03 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 1.46 | 0.0  | 0.20 |
| 31     |  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.98 | 0.0   | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.23 |
| TOTAL  |  | 0.10                         | 2.16 | 3.11 | 3.37 | 4.60 | 1.67  | 0.15 | 5.46 | 2.71 | 4.41 | 2.17 | 1.25 |
| STA AV |  | 0.77                         | 1.04 | 1.85 | 2.71 | 3.86 | 2.78  | 1.84 | 2.73 | 4.07 | 2.41 | 1.84 | 0.89 |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 6 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED 111 NEAR ANADARKO |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 1.867  | 2.190  | 3.606  | 2.401  | 41.045 | 3.799  | 0.181  | 0.0    | 0.257  | 1.749  | 4.067  | 2.510  |
| 2   | 1.732  | 2.190  | 3.387  | 2.191  | 19.742 | 3.120  | 0.129  | 0.0    | 0.276  | 3.196  | 25.487 | 2.510  |
| 3   | 1.710  | 2.190  | 3.240  | 1.991  | 11.981 | 2.599  | 0.125  | 0.0    | 0.276  | 3.606  | 15.084 | 2.510  |
| 4   | 1.710  | 2.190  | 3.095  | 1.812  | 8.627  | 2.579  | 0.155  | 0.0    | 0.246  | 3.606  | 11.314 | 2.510  |
| 5   | 1.710  | 2.177  | 2.876  | 1.756  | 6.576  | 2.427  | 0.152  | 0.0    | 0.194  | 3.340  | 8.360  | 2.510  |
| 6   | 1.782  | 2.090  | 2.740  | 1.942  | 5.105  | 2.442  | 0.102  | 0.0    | 0.161  | 2.852  | 6.419  | 2.510  |
| 7   | 2.259  | 2.002  | 2.635  | 1.869  | 4.111  | 2.616  | 0.065  | 0.0    | 0.142  | 2.311  | 5.246  | 2.510  |
| 8   | 2.512  | 2.002  | 30.172 | 1.654  | 3.410  | 2.091  | 0.104  | 0.0    | 0.142  | 1.896  | 4.574  | 2.524  |
| 9   | 2.131  | 2.077  | 24.423 | 1.642  | 2.984  | 1.501  | 0.332  | 0.818  | 0.157  | 1.544  | 5.025  | 2.887  |
| 10  | 1.892  | 2.090  | 34.846 | 1.850  | 2.624  | 1.232  | 0.161  | 4.189  | 0.157  | 1.244  | 5.375  | 4.529  |
| 11  | 1.732  | 2.090  | 22.278 | 8.393  | 2.294  | 1.084  | 0.050  | 0.720  | 0.145  | 1.084  | 4.575  | 4.392  |
| 12  | 1.732  | 2.102  | 13.827 | 4.257  | 2.004  | 0.922  | 0.022  | 0.257  | 0.169  | 0.971  | 3.865  | 3.951  |
| 13  | 1.959  | 2.177  | 9.942  | 3.267  | 1.801  | 0.822  | 0.020  | 0.132  | 0.247  | 1.221  | 3.609  | 3.660  |
| 14  | 2.544  | 2.202  | 8.022  | 2.670  | 1.611  | 0.691  | 0.020  | 0.112  | 0.306  | 1.444  | 3.257  | 3.492  |
| 15  | 2.740  | 2.305  | 6.586  | 2.401  | 1.392  | 0.570  | 0.022  | 0.062  | 0.320  | 1.146  | 2.982  | 3.257  |
| 16  | 2.892  | 2.469  | 5.622  | 2.204  | 1.290  | 0.516  | 0.035  | 0.025  | 0.519  | 1.067  | 2.770  | 3.126  |
| 17  | 3.176  | 2.414  | 5.065  | 2.102  | 1.150  | 1.595  | 0.020  | 0.017  | 0.504  | 0.932  | 2.755  | 3.110  |
| 18  | 3.095  | 2.374  | 4.691  | 2.090  | 1.019  | 1.114  | 0.002  | 0.002  | 0.485  | 0.900  | 2.876  | 3.079  |
| 19  | 2.891  | 2.216  | 4.271  | 2.129  | 1.000  | 0.607  | 0.0    | 0.0    | 0.870  | 0.831  | 3.032  | 2.891  |
| 20  | 2.845  | 2.872  | 4.177  | 2.347  | 1.056  | 0.422  | 0.0    | 0.0    | 1.026  | 0.760  | 2.786  | 2.845  |
| 21  | 2.755  | 26.323 | 4.591  | 2.291  | 1.375  | 0.366  | 0.0    | 0.0    | 0.776  | 0.699  | 2.740  | 2.755  |
| 22  | 2.725  | 10.570 | 4.372  | 2.177  | 1.292  | 0.360  | 0.0    | 0.0    | 0.566  | 0.690  | 2.755  | 2.740  |
| 23  | 2.635  | 7.841  | 3.951  | 1.991  | 1.124  | 0.355  | 0.0    | 0.0    | 0.549  | 0.840  | 2.815  | 2.725  |
| 24  | 2.620  | 6.035  | 3.660  | 1.824  | 1.160  | 0.330  | 0.0    | 0.0    | 1.292  | 1.846  | 2.636  | 2.635  |
| 25  | 2.606  | 4.924  | 3.542  | 1.789  | 7.377  | 0.355  | 0.0    | 0.0    | 1.590  | 2.552  | 2.524  | 2.620  |
| 26  | 2.510  | 4.255  | 3.624  | 1.710  | 6.346  | 0.355  | 0.0    | 0.0    | 1.135  | 2.124  | 2.510  | 2.635  |
| 27  | 2.414  | 3.826  | 3.640  | 1.631  | 5.976  | 0.316  | 0.0    | 5.658  | 0.836  | 1.757  | 2.510  | 2.740  |
| 28  | 2.386  | 3.659  | 3.590  | 1.600  | 4.704  | 0.251  | 0.0    | 0.724  | 0.626  | 3.870  | 2.510  | 2.860  |
| 29  | 2.291  |        | 3.227  | 10.212 | 3.332  | 0.197  | 0.0    | 0.505  | 0.467  | 2.377  | 2.510  | 2.965  |
| 30  | 2.202  |        | 2.787  | 8.542  | 2.855  | 0.190  | 0.0    | 0.369  | 0.541  | 5.760  | 2.510  | 3.196  |
| 31  | 2.190  |        | 2.607  |        | 4.192  |        | 0.0    | 0.286  |        | 7.725  |        | 2.139  |
| MEAN  | 2.3306 | 3.9948 | 7.5838 | 2.8246 | 5.1792 | 1.1943 | 0.0548 | 0.4477 | 0.4994 | 2.1272 | 4.9826 | 2.9459 |
| INC8ES  | 0.103  | 0.160  | 0.336  | 0.121  | 0.230  | 0.051  | 0.002  | 0.020  | 0.021  | 0.094  | 0.214  | 0.131  |
| STA AV  | 0.072  | 0.080  | 0.133  | 0.148  | 0.166  | 0.090  | 0.028  | 0.015  | 0.044  | 0.039  | 0.075  | 0.068  |

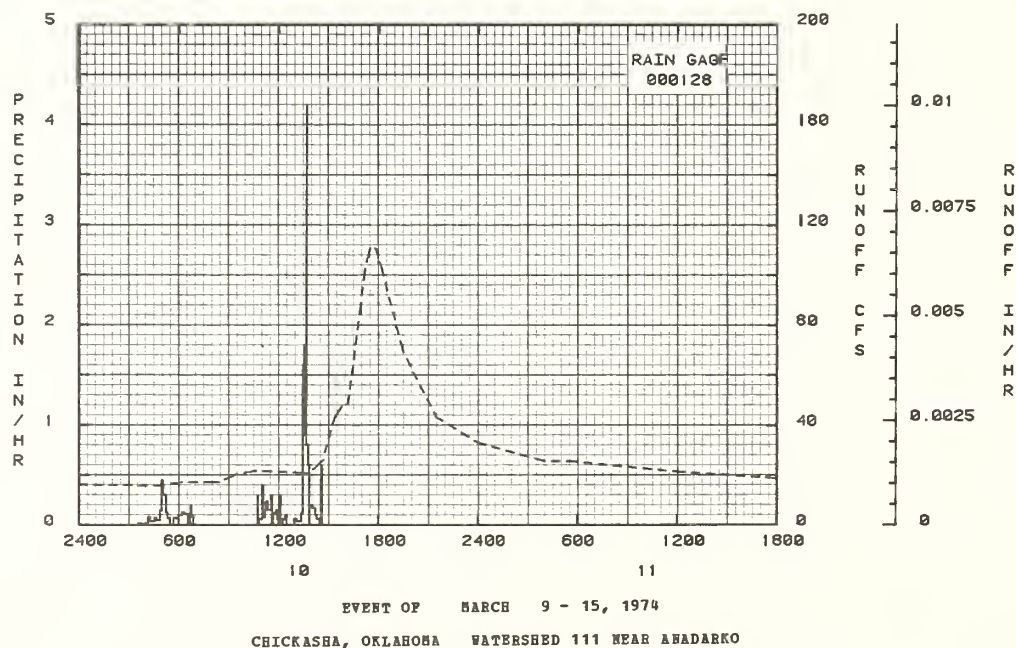
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1,386. STA AV based on 13 yr (1962-74) record period.

| 1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED 111 NEAR ANADARKO |          |          |          |        |           |          |        |        |         |          |  |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|---------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |         |          |  |  |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |  |
| EVENT OF MARCH 9 - 15, 1974  |          |          |          |        |           |          |        |        |         |          |  |  |
| RG 000128  |          |          |          |        |           |          |        |        |         |          |  |  |
| 3-10   | 0.0      |          | 3-10     | 335    | 0.0       | 0.0      | 3- 9   | 2400   | 16.180  | 0.0      |  |  |
| 3- 9   |          | 0.035    |          | 409    | 0.0176    | 0.01     | 3-10   | 441    | 15.840  | 0.0045   |  |  |
|  |          |          |          | 416    | 0.0857    | 0.02     |        | 611    | 17.230  | 0.0059   |  |  |
|  |          |          |          | 432    | 0.0375    | 0.03     |        | 823    | 17.230  | 0.0082   |  |  |
|  |          |          |          | 440    | 0.0750    | 0.04     |        | 930    | 20.620  | 0.0095   |  |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |         |          |  |  |
| From a revised 1974 survey;  |          |          |          |        |           |          |        |        |         |          |  |  |
| sowed crop - 16%; row crop -   |          |          |          |        |           |          |        |        |         |          |  |  |
| 1%; alfalfa - 2%; pasture  |          |          |          |        |           |          |        |        |         |          |  |  |
| and range - 72%; and miscel-   |          |          |          |        |           |          |        |        |         |          |  |  |
| laneous - 9%.  |          |          |          |        |           |          |        |        |         |          |  |  |
|  |          |          |          | 453    | 0.0462    | 0.05     |        | 1041   | 21.830  | 0.0110   |  |  |
|  |          |          |          | 457    | 0.1500    | 0.06     |        | 1348   | 20.620  | 0.0149   |  |  |
|  |          |          |          | 501    | 0.4500    | 0.09     |        | 1441   | 26.270  | 0.0161   |  |  |
|  |          |          |          | 504    | 0.4000    | 0.11     |        | 1523   | 43.240  | 0.0176   |  |  |
|  |          |          |          | 514    | 0.3000    | 0.16     |        | 1548   | 47.740  | 0.0187   |  |  |
|  |          |          |          | 519    | 0.1200    | 0.17     |        | 1611   | 48.680  | 0.0198   |  |  |
|  |          |          |          | 528    | 0.0667    | 0.18     |        | 1653   | 86.040  | 0.0226   |  |  |
|  |          |          |          | 542    | 0.0       | 0.18     |        | 1711   | 102.510 | 0.0243   |  |  |
|  |          |          |          | 550    | 0.0750    | 0.19     |        | 1730   | 110.680 | 0.0263   |  |  |
|  |          |          |          | 559    | 0.0667    | 0.20     |        | 1748   | 110.680 | 0.0283   |  |  |
|  |          |          |          | 611    | 0.1000    | 0.22     |        | 1811   | 102.510 | 0.0307   |  |  |
|  |          |          |          | 620    | 0.1333    | 0.24     |        | 1930   | 69.070  | 0.0375   |  |  |
|  |          |          |          | 636    | 0.1125    | 0.27     |        | 2130   | 43.240  | 0.0442   |  |  |
|  |          |          |          | 643    | 0.0       | 0.27     |        | 2400   | 32.930  | 0.0499   |  |  |
|  |          |          |          | 646    | 0.2000    | 0.28     | 3-11   | 400    | 25.660  | 0.0568   |  |  |
|  |          |          |          | 653    | 0.0857    | 0.29     |        | 530    | 25.660  | 0.0591   |  |  |
|  |          |          |          | 656    | 0.0       | 0.29     |        | 1200   | 21.420  | 0.0683   |  |  |
|  |          |          |          | 1040   | 0.0       | 0.29     |        | 1800   | 18.690  | 0.0754   |  |  |
|  |          |          |          | 1045   | 0.0       | 0.29     |        | 2400   | 16.530  | 0.0817   |  |  |
|  |          |          |          | 1047   | 0.3000    | 0.30     | 3-12   | 1200   | 13.580  | 0.0925   |  |  |
|  |          |          |          | 1052   | 0.0       | 0.30     |        | 2400   | 11.620  | 0.1015   |  |  |
|  |          |          |          | 1102   | 0.0600    | 0.31     | 3-13   | 1200   | 9.660   | 0.1091   |  |  |
|  |          |          |          | 1105   | 0.4000    | 0.33     |        | 2400   | 8.830   | 0.1157   |  |  |
|  |          |          |          | 1113   | 0.0750    | 0.34     | 3-14   | 1200   | 8.000   | 0.1217   |  |  |
|  |          |          |          | 1117   | 0.1500    | 0.35     |        | 2400   | 7.260   | 0.1272   |  |  |

NOTES: To convert runoff in CFS to IN/H8, multiply by 0.00005962.

| 1974 SELECTED RUNOFF EVENT              |          |          | CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO |        |           |          |        |        |       |          |
|---|----------|----------|---|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                   |          |          | RAINFALL  |        |           |          | RUNOFF |        |       |          |
| Date                                    | Rainfall | Runoff   | Date  | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                  | (inches) | (inches) | Mo-Day  | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MARCH 9 - 15, 1974 (CONTINUED) |          |          |   |        |           |          |        |        |       |          |
| 3-10                                    |          |          | 1122  |        | 0.2400    | 0.37     | 3-15   | 1200   | 6.520 | 0.1321   |
|   |          |          | 1134  |        | 0.1500    | 0.40     |        | 2400   | 6.045 | 0.1366   |
|   |          |          | 1138  |        | 0.3000    | 0.42     |        |        |       |          |
|   |          |          | 1142  |        | 0.0       | 0.42     |        |        |       |          |
|   |          |          | 1152  |        | 0.1200    | 0.44     |        |        |       |          |
|   |          |          | 1156  |        | 0.1500    | 0.45     |        |        |       |          |
|   |          |          | 1207  |        | 0.0545    | 0.46     |        |        |       |          |
|   |          |          | 1209  |        | 0.3000    | 0.47     |        |        |       |          |
|   |          |          | 1215  |        | 0.0       | 0.47     |        |        |       |          |
|   |          |          | 1225  |        | 0.0600    | 0.48     |        |        |       |          |
|   |          |          | 1231  |        | 0.1000    | 0.49     |        |        |       |          |
|   |          |          | 1258  |        | 0.0       | 0.49     |        |        |       |          |
|   |          |          | 1307  |        | 0.0667    | 0.50     |        |        |       |          |
|   |          |          | 1323  |        | 0.0375    | 0.51     |        |        |       |          |
|   |          |          | 1328  |        | 0.1200    | 0.52     |        |        |       |          |
|   |          |          | 1331  |        | 1.6000    | 0.60     |        |        |       |          |
|   |          |          | 1333  |        | 1.2000    | 0.64     |        |        |       |          |
|   |          |          | 1334  |        | 1.8000    | 0.67     |        |        |       |          |
|   |          |          | 1338  |        | 0.9000    | 0.73     |        |        |       |          |
|   |          |          | 1340  |        | 1.2000    | 0.77     |        |        |       |          |
|   |          |          | 1341  |        | 4.2000    | 0.84     |        |        |       |          |
|   |          |          | 1347  |        | 0.8000    | 0.92     |        |        |       |          |
|   |          |          | 1351  |        | 0.6000    | 0.96     |        |        |       |          |
|   |          |          | 1353  |        | 0.0       | 0.96     |        |        |       |          |
|   |          |          | 1406  |        | 0.1846    | 1.00     |        |        |       |          |
|   |          |          | 1413  |        | 0.1714    | 1.02     |        |        |       |          |
|   |          |          | 1419  |        | 0.1000    | 1.03     |        |        |       |          |
|   |          |          | 1429  |        | 0.0600    | 1.04     |        |        |       |          |
|   |          |          | 1435  |        | 0.0       | 1.04     |        |        |       |          |
|   |          |          | 1438  |        | 0.6000    | 1.07     |        |        |       |          |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962.



## CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 29, T. 7 N., R. 9 W., lat 35 deg. 03 min. N., long. 98 deg. 10 min. W., 3 miles East and 1 mile South of Anadarko, Okla., at section line road bridge.

AREA: 25660.00 acres 40.10 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO |       |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May   | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 0.13              | 2.26  | 3.09   | 3.21  | 4.91  | 1.70  | 0.93                                      | 5.26  | 2.86    | 3.70  | 2.19     | 1.37  | 31.61  |       |        |       |        |      |
|   | Q | 0.095             | 0.166 | 0.319  | 0.141 | 0.253   | 0.060 | 0.003                                     | 0.016 | 0.007   | 0.024 | 0.136    | 0.101 | 1.321  |       |        |       |        |      |
| STA AV  | P | 0.87              | 1.15  | 1.83   | 2.84  | 4.04  | 2.69  | 2.07                                      | 2.63  | 4.12    | 2.60  | 2.00     | 0.95  | 27.79  |       |        |       |        |      |
|   | Q | 0.056             | 0.067 | 0.111  | 0.114 | 0.148   | 0.077 | 0.015                                     | 0.007 | 0.021   | 0.033 | 0.043    | 0.051 | 0.743  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |   |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours   |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date  | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 3-10              | 0.011 | 3-10   | 0.010 | 3-10  | 0.020 | 3-10                                      | 0.052 | 3-10    | 0.075 | 3-10     | 0.091 | 3- 8   | 0.108 | 3- 8   | 0.210 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |   |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6- 2              | 0.042 | 6- 2   | 0.041 | 6- 2  | 0.079 | 6- 2                                      | 0.193 | 6- 2    | 0.273 | 6- 2     | 0.315 | 6- 1   | 0.372 | 5-31   | 0.461 |        |      |
|   |   | 1973              |       | 1973   |       | 1973  |       | 1973                                      |       | 1973    |       | 1973     |       | 1973   |       | 1973   |       |        |      |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 11%; row crop - 3%; alfalfa - 2%; pasture and range - 74%; and miscellaneous - 10%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, p. 69.11-4 (Topography) and 1965, USDA Misc. Pnb. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   |      | DAILY PRECIPITATION (inches) |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO |      |      |      |      |      |  |  |
|--------|------|------------------------------|------|------|------|------|---|------|------|------|------|------|--|--|
| Day    | Jan  | Feb                          | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct  | Nov  | Dec  |  |  |
| 1      | 0.01 | 0.0                          | 0.0  | 0.0  | 1.33 | 0.0  | 0.0   | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 2      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.22 | 0.0  | 1.01 | 0.0  |  |  |
| 3      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.40 | 0.0   | 0.02 | 0.0  | 0.0  | 0.45 | 0.0  |  |  |
| 4      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.86  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 5      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.06 | 0.0  | 0.0  | 0.0  | 0.02 |  |  |
| 6      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.56 | 0.0   | 0.04 | 0.0  | 0.13 | 0.0  | 0.09 |  |  |
| 7      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.03 | 0.0   | 0.0  | 0.0  | 0.01 | 0.05 | 0.0  |  |  |
| 8      | 0.0  | 0.0                          | 1.59 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 9      | 0.06 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.79 | 0.0  | 0.0  | 0.41 | 0.0  |  |  |
| 10     | 0.0  | 0.0                          | 1.19 | 0.0  | 0.0  | 0.0  | 0.0   | 0.92 | 0.0  | 0.0  | 0.20 | 0.68 |  |  |
| 11     | 0.0  | 0.0                          | 0.0  | 1.26 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 |  |  |
| 12     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 13     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  |  |  |
| 14     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  |  |  |
| 15     | 0.0  | 0.07                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  |  |  |
| 16     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |  |  |
| 17     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.69 | 0.0   | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |  |  |
| 18     | 0.0  | 0.03                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 19     | 0.02 | 0.0                          | 0.0  | 0.11 | 0.0  | 0.0  | 0.0   | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  |  |  |
| 20     | 0.0  | 1.65                         | 0.31 | 0.02 | 0.0  | 0.0  | 0.0   | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  |  |  |
| 21     | 0.0  | 0.51                         | 0.0  | 0.0  | 0.43 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 22     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 23     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.11 | 0.0  | 0.0   | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.02 | 0.0  | 0.0   | 0.05 | 1.20 | 0.85 | 0.0  | 0.0  |  |  |
| 25     | 0.0  | 0.0                          | 0.0  | 0.0  | 1.67 | 0.0  | 0.0   | 0.0  | 0.09 | 0.09 | 0.0  | 0.0  |  |  |
| 26     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 27     | 0.04 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.79 | 0.0  | 0.06 | 0.0  | 0.0  |  |  |
| 28     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.60 | 0.0  | 0.0  |  |  |
| 29     | 0.0  | 0.0                          | 0.0  | 1.79 | 0.0  | 0.0  | 0.07  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |  |  |
| 30     | 0.0  | 0.0                          | 0.0  | 0.03 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.30 | 0.0  | 0.22 |  |  |
| 31     | 0.0  | 0.0                          | 0.0  | 0.0  | 1.35 | 0.0  | 0.0   | 0.0  | 0.0  | 0.23 | 0.0  | 0.20 |  |  |
| TOTAL  | 0.13 | 2.26                         | 3.09 | 3.21 | 4.91 | 1.70 | 0.93  | 5.26 | 2.86 | 3.70 | 2.19 | 1.37 |  |  |
| STA AV | 0.87 | 1.15                         | 1.83 | 2.84 | 4.04 | 2.69 | 2.07  | 2.63 | 4.12 | 2.60 | 2.00 | 0.95 |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASEA, OKLAHOMA WATERSHED 131 NEAR ANADARKO |       |        |        |        |        |       |       |       |       |       |        |       |
|---|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug   | Sep   | Oct   | Nov    | Dec   |
| 1   | 2.974 | 3.112  | 4.339  | 3.600  | 62.733 | 7.551 | 0.199 | 0.010 | 0.022 | 0.211 | 2.687  | 2.511 |
| 2   | 2.860 | 2.991  | 4.211  | 3.411  | 34.991 | 3.717 | 0.142 | 0.019 | 0.041 | 0.192 | 47.022 | 2.699 |
| 3   | 2.746 | 2.876  | 4.190  | 3.270  | 9.191  | 3.315 | 0.079 | 0.020 | 0.065 | 0.186 | 7.674  | 2.730 |
| 4   | 2.730 | 2.860  | 4.130  | 3.165  | 6.414  | 3.771 | 2.053 | 0.020 | 0.060 | 0.164 | 10.882 | 2.730 |
| 5   | 2.730 | 2.827  | 3.790  | 3.235  | 5.152  | 2.911 | 0.534 | 0.020 | 0.050 | 0.164 | 4.222  | 2.730 |
| 6   | 2.730 | 2.617  | 3.870  | 3.114  | 4.515  | 4.269 | 0.219 | 0.021 | 0.039 | 0.200 | 3.422  | 2.730 |
| 7   | 2.762 | 2.452  | 4.010  | 2.877  | 3.914  | 9.496 | 0.080 | 0.027 | 0.021 | 0.290 | 2.831  | 2.730 |
| 8   | 2.925 | 2.256  | 36.823 | 2.730  | 3.562  | 3.732 | 0.034 | 0.016 | 0.010 | 0.322 | 3.031  | 2.730 |
| 9   | 2.762 | 2.640  | 39.057 | 2.616  | 3.289  | 2.392 | 0.021 | 0.119 | 0.002 | 0.300 | 4.494  | 2.815 |
| 10  | 2.730 | 2.616  | 77.144 | 2.632  | 3.114  | 1.957 | 0.019 | 7.725 | 0.010 | 0.270 | 6.287  | 3.944 |
| 11  | 2.730 | 2.632  | 35.747 | 21.666 | 2.861  | 1.817 | 0.010 | 0.457 | 0.017 | 0.240 | 4.510  | 7.562 |
| 12  | 2.762 | 2.827  | 12.250 | 7.066  | 2.602  | 1.655 | 0.001 | 0.069 | 0.010 | 0.225 | 3.196  | 6.831 |
| 13  | 3.047 | 2.860  | 9.144  | 4.326  | 2.362  | 1.567 | 0.0   | 0.012 | 0.001 | 0.319 | 3.184  | 4.902 |
| 14  | 3.640 | 2.860  | 8.086  | 3.140  | 2.167  | 1.212 | 0.0   | 0.001 | 0.001 | 0.521 | 2.895  | 4.056 |
| 15  | 3.911 | 2.876  | 7.186  | 2.974  | 2.114  | 1.250 | 0.001 | 0.0   | 0.059 | 0.607 | 2.746  | 3.600 |
| 16  | 4.365 | 2.991  | 6.537  | 2.860  | 1.944  | 1.115 | 0.007 | 0.0   | 0.339 | 0.540 | 2.746  | 3.429 |
| 17  | 4.757 | 3.130  | 6.296  | 2.746  | 1.817  | 3.214 | 0.001 | 0.0   | 0.257 | 0.456 | 2.844  | 3.410 |
| 18  | 4.385 | 3.235  | 6.167  | 2.762  | 1.632  | 2.105 | 0.001 | 0.0   | 0.234 | 0.410 | 2.876  | 3.375 |
| 19  | 4.071 | 3.112  | 5.629  | 3.010  | 1.472  | 1.272 | 0.009 | 0.0   | 0.365 | 0.375 | 2.910  | 3.165 |
| 20  | 4.010 | 10.730 | 6.179  | 3.357  | 1.536  | 1.001 | 0.010 | 0.0   | 0.475 | 0.370 | 2.559  | 3.130 |
| 21  | 3.851 | 72.424 | 7.366  | 3.357  | 2.027  | 0.861 | 0.010 | 0.0   | 0.459 | 0.370 | 2.570  | 3.130 |
| 22  | 3.562 | 11.254 | 7.046  | 2.994  | 1.896  | 0.762 | 0.009 | 0.0   | 0.271 | 0.380 | 2.510  | 3.130 |
| 23  | 3.306 | 7.114  | 5.939  | 2.634  | 1.532  | 0.771 | 0.001 | 0.0   | 0.296 | 0.491 | 2.527  | 3.130 |
| 24  | 3.270 | 5.257  | 5.334  | 2.466  | 1.607  | 0.645 | 0.0   | 0.0   | 0.776 | 0.930 | 2.197  | 3.112 |
| 25  | 3.287 | 4.732  | 5.260  | 2.265  | 40.625 | 0.581 | 0.0   | 0.0   | 1.545 | 1.604 | 2.167  | 3.060 |
| 26  | 3.375 | 4.531  | 5.260  | 2.127  | 19.310 | 0.539 | 0.0   | 0.0   | 0.807 | 1.079 | 2.319  | 3.357 |
| 27  | 3.305 | 4.381  | 5.236  | 1.982  | 4.651  | 0.486 | 0.0   | 7.751 | 0.495 | 0.876 | 2.277  | 3.429 |
| 28  | 3.375 | 4.360  | 5.026  | 2.061  | 2.992  | 0.406 | 0.0   | 0.294 | 0.342 | 2.230 | 2.361  | 3.560 |
| 29  | 3.287 |        | 4.555  | 7.573  | 2.286  | 0.300 | 0.001 | 0.087 | 0.274 | 1.417 | 2.465  | 3.672 |
| 30  | 3.252 |        | 4.212  | 39.690 | 1.945  | 0.206 | 0.007 | 0.041 | 0.240 | 2.425 | 2.480  | 4.086 |
| 31  | 3.147 |        | 3.991  |        | 36.493 |       | 0.002 | 0.022 |       | 7.796 |        | 3.302 |
| MEAN  | 3.311 | 6.377  | 11.097 | 5.057  | 8.798  | 2.163 | 0.111 | 0.540 | 0.253 | 0.837 | 4.896  | 3.509 |
| INCBES  | 0.095 | 0.166  | 0.319  | 0.141  | 0.253  | 0.060 | 0.003 | 0.016 | 0.007 | 0.024 | 0.136  | 0.101 |
| STA AV  | 0.056 | 0.067  | 0.111  | 0.114  | 0.148  | 0.077 | 0.015 | 0.007 | 0.021 | 0.033 | 0.043  | 0.051 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2,138. STA AV based on 13 yr (1962-74) record period.

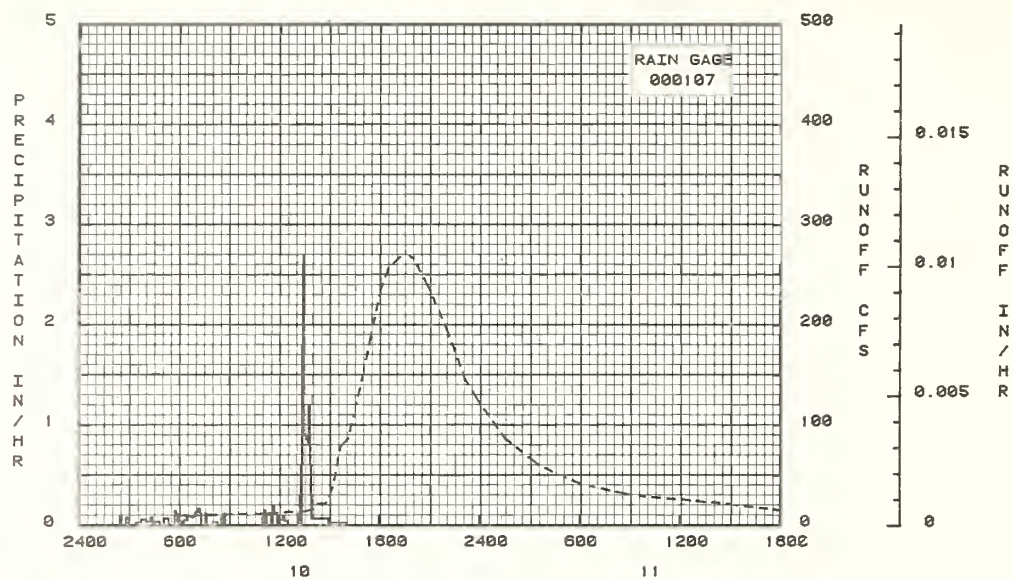
| 1974                         |          |          | SELECTED RUNOFF EVENT |        |           |          |        |        |         |          |  |  | CRICKASEA, OKLAHOMA |        |        |       |          |  |  |  |        |        | WATERSHED 131 |          |  |       |  |  |  |  |  |  | NEAR ANADARKO |  |  |               |  |  |  |  |  |  |  |  |  |
|------------------------------|----------|----------|-----------------------|--------|-----------|----------|--------|--------|---------|----------|--|--|---------------------|--------|--------|-------|----------|--|--|--|--------|--------|---------------|----------|--|-------|--|--|--|--|--|--|---------------|--|--|---------------|--|--|--|--|--|--|--|--|--|
| ANTECEDENT CONDITIONS        |          |          | RAINFALL              |        |           |          | RUNOFF |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| Date                         | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |  |                     | Date   | Time   | Rate  | Acc.     |  |  |  | Date   | Time   | Rate          | Acc.     |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| Mo-Day                       | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |  |                     | Mo-Day | of Day | (cfs) | (inches) |  |  |  | Mo-Day | of Day | (cfs)         | (inches) |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| EVENT OF                     |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  | MARCH |  |  |  |  |  |  |               |  |  | 10 - 16, 1974 |  |  |  |  |  |  |  |  |  |
| RG 000107                    |          |          |                       |        |           |          |        |        |         |          |  |  | EG 000107           |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| 3-10                         | 0.0      | 0.003    | 3-10                  | 229    | 0.0       | 0.0      | 3-10   | 600    | 10.260  | 0.0      |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 234    | 0.1200    | 0.01     |        | 1100   | 12.080  | 0.0022   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 250    | 0.0       | 0.01     |        | 1336   | 14.440  | 0.0035   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 257    | 0.0857    | 0.02     |        | 1400   | 17.060  | 0.0037   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 323    | 0.0       | 0.02     |        | 1418   | 21.740  | 0.0039   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| WATERSHED CONDITIONS:        |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| From a revised 1974 survey:  |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| sowed crop - 11%; row crop - |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| 3%; alfalfa - 2%; pasture    |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| and range - 74%; and miscel- |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
| laneous - 10%.               |          |          |                       |        |           |          |        |        |         |          |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 343    | 0.0300    | 0.03     |        | 1430   | 21.740  | 0.0041   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 352    | 0.0667    | 0.04     |        | 1441   | 21.290  | 0.0043   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 402    | 0.0600    | 0.05     |        | 1448   | 22.670  | 0.0044   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 418    | 0.0375    | 0.06     |        | 1511   | 38.270  | 0.0048   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 425    | 0.0857    | 0.07     |        | 1541   | 79.720  | 0.0060   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 434    | 0.0       | 0.07     |        | 1606   | 87.060  | 0.0073   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 450    | 0.0375    | 0.08     |        | 1630   | 115.320 | 0.0089   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 506    | 0.0       | 0.08     |        | 1700   | 151.340 | 0.0114   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 522    | 0.0750    | 0.10     |        | 1730   | 192.690 | 0.0148   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 529    | 0.0       | 0.10     |        | 1800   | 234.360 | 0.0189   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 540    | 0.0       | 0.10     |        | 1830   | 256.750 | 0.0236   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 544    | 0.0       | 0.10     |        | 1911   | 268.208 | 0.0306   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 548    | 0.1500    | 0.11     |        | 1930   | 272.418 | 0.0339   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 553    | 0.1200    | 0.12     |        | 2000   | 266.110 | 0.0391   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 608    | 0.0400    | 0.13     |        | 2100   | 234.360 | 0.0487   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 616    | 0.0       | 0.13     |        | 2200   | 195.500 | 0.0571   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 627    | 0.0545    | 0.14     |        | 2230   | 173.390 | 0.0606   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 646    | 0.0947    | 0.17     |        | 2306   | 146.210 | 0.0643   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 653    | 0.0857    | 0.18     |        | 2400   | 121.840 | 0.0690   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 659    | 0.1000    | 0.19     | 3-11   | 130    | 87.060  | 0.0750   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 708    | 0.1333    | 0.21     |        | 330    | 60.040  | 0.0807   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 715    | 0.1714    | 0.23     |        | 600    | 41.600  | 0.0856   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 720    | 0.1200    | 0.24     |        | 900    | 30.400  | 0.0898   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 732    | 0.0       | 0.24     |        | 1500   | 21.290  | 0.0958   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |
|                              |          |          |                       | 735    | 0.0       | 0.24     |        | 2400   | 15.160  | 0.1021   |  |  |                     |        |        |       |          |  |  |  |        |        |               |          |  |       |  |  |  |  |  |  |               |  |  |               |  |  |  |  |  |  |  |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.



| 1974 SELECTED RUNOFF EVENT               |                      |                    | CRICKASRA, OKLAHOMA WATERSHED 131 NEAR ANADARRO |                |                      |                  |                |                  |
|--|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                    |                      |                    | RAINFALL  |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                           | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                                  | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|  |                      |                    |   |                |                      |                  |                | Rate<br>(cfs)    |
|  |                      |                    |   |                |                      |                  |                | Acc.<br>(inches) |
| EVENT OF MARCH 10 - 16, 1974 (CONTINUED) |                      |                    |   |                |                      |                  |                |                  |
| 3-10                                     |                      |                    |   | 740            | 0.1200               | 0.25             | 3-12           | 1200             |
|  |                      |                    |   | 802            | 0.0                  | 0.25             |                | 2400             |
|  |                      |                    |   | 820            | 0.0333               | 0.26             | 3-13           | 1200             |
|  |                      |                    |   | 831            | 0.0                  | 0.26             |                | 2400             |
|  |                      |                    |   | 838            | 0.0857               | 0.27             | 3-14           | 1200             |
|  |                      |                    |   | 841            | 0.0                  | 0.27             |                | 2400             |
|  |                      |                    |   | 846            | 0.1200               | 0.28             | 3-15           | 1200             |
|  |                      |                    |   | 854            | 0.0                  | 0.28             |                | 2400             |
|  |                      |                    |   | 1100           | 0.0                  | 0.28             | 3-16           | 1200             |
|  |                      |                    |   | 1107           | 0.0857               | 0.29             |                | 2400             |
|  |                      |                    |   | 1111           | 0.1500               | 0.30             |                |                  |
|  |                      |                    |   | 1116           | 0.0                  | 0.30             |                |                  |
|  |                      |                    |   | 1121           | 0.1200               | 0.31             |                |                  |
|  |                      |                    |   | 1132           | 0.1091               | 0.33             |                |                  |
|  |                      |                    |   | 1137           | 0.0                  | 0.33             |                |                  |
|  |                      |                    |   | 1143           | 0.2000               | 0.35             |                |                  |
|  |                      |                    |   | 1153           | 0.1200               | 0.37             |                |                  |
|  |                      |                    |   | 1203           | 0.0                  | 0.37             |                |                  |
|  |                      |                    |   | 1213           | 0.0600               | 0.38             |                |                  |
|  |                      |                    |   | 1219           | 0.1000               | 0.39             |                |                  |
|  |                      |                    |   | 1232           | 0.0462               | 0.40             |                |                  |
|  |                      |                    |   | 1308           | 0.0                  | 0.40             |                |                  |
|  |                      |                    |   | 1313           | 0.1200               | 0.41             |                |                  |
|  |                      |                    |   | 1314           | 0.0                  | 0.41             |                |                  |
|  |                      |                    |   | 1316           | 0.3000               | 0.42             |                |                  |
|  |                      |                    |   | 1319           | 0.0                  | 0.42             |                |                  |
|  |                      |                    |   | 1320           | 0.6000               | 0.43             |                |                  |
|  |                      |                    |   | 1321           | 0.0                  | 0.43             |                |                  |
|  |                      |                    |   | 1322           | 1.8000               | 0.46             |                |                  |
|  |                      |                    |   | 1323           | 0.6000               | 0.47             |                |                  |
|  |                      |                    |   | 1325           | 2.7000               | 0.56             |                |                  |
|  |                      |                    |   | 1326           | 1.8000               | 0.59             |                |                  |
|  |                      |                    |   | 1330           | 0.9000               | 0.65             |                |                  |
|  |                      |                    |   | 1332           | 0.9000               | 0.68             |                |                  |
|  |                      |                    |   | 1336           | 0.9000               | 0.74             |                |                  |
|  |                      |                    |   | 1343           | 0.8571               | 0.84             |                |                  |
|  |                      |                    |   | 1346           | 0.8000               | 0.88             |                |                  |
|  |                      |                    |   | 1348           | 1.2000               | 0.92             |                |                  |
|  |                      |                    |   | 1350           | 0.9000               | 0.95             |                |                  |
|  |                      |                    |   | 1352           | 0.6000               | 0.97             |                |                  |
|  |                      |                    |   | 1354           | 0.6000               | 0.99             |                |                  |
|  |                      |                    |   | 1356           | 0.3000               | 1.00             |                |                  |
|  |                      |                    |   | 1458           | 0.0677               | 1.07             |                |                  |
|  |                      |                    |   | 1607           | 0.0261               | 1.10             |                |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.



## CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: Line Creek Watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min. N., long. 97 deg. 58 min. W., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |              |       |              | CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA |   |       |               |       |               |       |               |       |
|---|---|-------------------|-------|--------------|-------|--------------|--|---|-------|---------------|-------|---------------|-------|---------------|-------|
|   |   | Jan               | Feb   | Mar          | Apr   | May          | Jun  | Jul                                       | Aug   | Sep           | Oct   | Nov           | Dec   | Annual        |       |
| 1974  | P | 0.12              | 1.71  | 3.45         | 3.66  | 4.83         | 0.90   | 0.91                                      | 4.78  | 2.95          | 3.97  | 1.31          | 1.37  | 29.96         |       |
|   | Q | 0.010             | 0.057 | 0.456        | 0.208 | 0.391        | 0.156  | 0.009                                     | 0.022 | 0.014         |       |               |       |               |       |
| STA AV  | P | 0.78              | 1.06  | 1.73         | 2.83  | 3.76         | 2.65   | 1.89                                      | 2.64  | 3.97          | 2.48  | 1.90          | 0.94  | 26.63         |       |
|   | Q | 0.005             | 0.008 | 0.062        | 0.073 | 0.117        | 0.099  | 0.012                                     | 0.035 | 0.031         | 0.081 | 0.038         | 0.007 | 0.568         |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |              |       |              |  |   |       |               |       |               |       |               |       |
|   |   | Maximum Discharge |       | 1 Hour       |       | 2 Hours      |  | Maximum Volume for Selected Time Interval |       | 1 Day         |       | 2 Days        |       | 8 Days        |       |
|   |   | Date              | Rate  | Date         | Vol.  | Date         | Vol.   | Date                                      | Vol.  | Date          | Vol.  | Date          | Vol.  | Date          | Vol.  |
| 1974  |   | 4-30              | 0.022 | 4-30         | 0.022 | 4-30         | 0.041  | 4-30                                      | 0.088 | 3-10          | 0.128 | 3-10          | 0.215 | 3-10          | 0.275 |
|   |   |                   |       |              |       |              |  |   |       |               |       |               |       | 4-29          | 0.460 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |              |       |              |  |   |       |               |       |               |       |               |       |
|   |   | 8-28<br>1965      | 0.060 | 8-28<br>1965 | 0.053 | 8-28<br>1965 | 0.096  | 8-28<br>1965                              | 0.204 | 10- 3<br>1971 | 0.301 | 10- 3<br>1971 | 0.463 | 10- 2<br>1971 | 0.552 |
|   |   |                   |       |              |       |              |  |   |       |               |       |               |       | 5-31<br>1973  | 0.669 |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 34%; row crop - 1%; alfalfa - 5%; pasture and range - 51% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.12-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, OK. Runoff records for this station were discontinued as of October 1, 1974.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.30 | 0.0  |  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.03 | 0.0  | 0.0  | 0.40 | 0.0  |  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.50 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.06 |  |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.35 | 0.0  | 0.03 | 0.0  | 0.19 | 0.0  | 0.03 |  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.03 | 0.05 | 0.0  |  |  |
| 8                                 | 0.0  | 0.0  | 1.67 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 9                                 | 0.07 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 1.85 | 0.0  | 0.0  | 0.31 | 0.0  |  |  |
| 10                                | 0.0  | 0.0  | 1.46 | 0.0  | 0.0  | 0.0  | 0.0  | 1.19 | 0.0  | 0.0  | 0.18 | 0.68 |  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.36 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 |  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  |  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  |  |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.64 | 0.0  | 0.0  | 0.0  |  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  |  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |  |  |
| 18                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |  |  |
| 20                                | 0.0  | 0.96 | 0.29 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  |  |  |
| 21                                | 0.0  | 0.65 | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 22                                | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.48 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 1.12 | 0.95 | 0.0  | 0.0  |  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.26 | 0.0  | 0.0  | 0.0  | 0.11 | 0.16 | 0.0  | 0.0  |  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  |  |  |
| 27                                | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.64 | 0.0  | 0.10 | 0.0  | 0.0  |  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.60 | 0.0  | 0.0  |  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.20 | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.23 |  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.80 | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.21 |  |  |
| TOTAL                             | 0.12 | 1.71 | 3.45 | 3.66 | 4.83 | 0.90 | 0.91 | 4.78 | 2.95 | 3.97 | 1.31 | 1.37 |  |  |
| STA AV                            | 0.78 | 1.06 | 1.73 | 2.83 | 3.76 | 2.65 | 1.89 | 2.64 | 3.97 | 2.48 | 1.90 | 0.94 |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED 411 AT CHICKASAW |       |       |        |        |        |        |       |       |       |       |       |       |
|--|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Day  | Jan   | Feb   | Mar    | Apr    | May    | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1  | 0.27  | 0.42  | 1.33   | 1.47   | 162.92 | 140.21 | 0.50  | 0.42  | 0.53  | NR    | NR    | NR    |
| 2  | 0.24  | 0.42  | 1.26   | 1.10   | 161.70 | 39.36  | 0.50  | 0.19  | 2.47  | NR    | NR    | NR    |
| 3  | 0.20  | 0.42  | 1.19   | 0.88   | 63.45  | 11.10  | 0.50  | 0.17  | 0.57  | NR    | NR    | NR    |
| 4  | 0.20  | 0.41  | 1.12   | 0.77   | 22.14  | 3.67   | 1.33  | 0.17  | 0.54  | NR    | NR    | NR    |
| 5  | 0.23  | 0.33  | 1.02   | 0.76   | 8.17   | 2.15   | 0.46  | 0.17  | 0.50  | NR    | NR    | NR    |
| 6  | 0.24  | 0.28  | 0.90   | 0.76   | 5.16   | 2.09   | 0.46  | 0.17  | 0.43  | NR    | NR    | NR    |
| 7  | 0.24  | 0.27  | 0.76   | 0.75   | 3.78   | 1.94   | 0.46  | 0.17  | 0.39  | NR    | NR    | NR    |
| 8  | 0.24  | 0.27  | 11.23  | 0.72   | 3.16   | 1.77   | 0.46  | 0.15  | 0.39  | NR    | NR    | NR    |
| 9  | 0.24  | 0.27  | 111.10 | 0.71   | 2.84   | 1.40   | 0.46  | 6.11  | 0.39  | NR    | NR    | NR    |
| 10   | 0.24  | 0.25  | 154.21 | 0.67   | 2.54   | 1.10   | 0.46  | 8.69  | 0.39  | NR    | NR    | NR    |
| 11   | 0.24  | 0.27  | 224.88 | 25.93  | 2.15   | 0.97   | 0.46  | 0.82  | 0.39  | NR    | NR    | NR    |
| 12   | 0.24  | 0.30  | 41.73  | 15.65  | 1.95   | 0.90   | 0.45  | 0.76  | 0.39  | NR    | NR    | NR    |
| 13   | 0.26  | 0.30  | 15.70  | 4.82   | 1.73   | 0.82   | 0.43  | 0.71  | 0.36  | NR    | NR    | NR    |
| 14   | 0.40  | 0.30  | 9.44   | 1.92   | 1.53   | 0.82   | 0.42  | 0.68  | 0.36  | NR    | NR    | NR    |
| 15   | 0.43  | 0.30  | 6.98   | 1.70   | 1.38   | 0.87   | 0.39  | 0.67  | 1.25  | NR    | NR    | NR    |
| 16   | 0.52  | 0.28  | 5.17   | 1.35   | 1.27   | 0.96   | 0.39  | 0.67  | 1.11  | NR    | NR    | NR    |
| 17   | 0.71  | 0.30  | 4.03   | 1.15   | 1.24   | 1.08   | 0.36  | 0.67  | 0.51  | NR    | NR    | NR    |
| 18   | 0.88  | 0.33  | 3.82   | 1.08   | 1.11   | 0.75   | 0.31  | 0.67  | 0.69  | NR    | NR    | NR    |
| 19   | 0.90  | 0.38  | 3.37   | 1.02   | 0.84   | 0.72   | 0.30  | 0.67  | 0.51  | NR    | NR    | NR    |
| 20   | 0.86  | 1.97  | 3.86   | 0.95   | 0.77   | 0.70   | 0.30  | 0.67  | 0.52  | NR    | NR    | NR    |
| 21   | 0.81  | 41.15 | 4.32   | 0.87   | 0.76   | 0.63   | 0.30  | 0.66  | 0.49  | NR    | NR    | NR    |
| 22   | 0.75  | 16.93 | 4.40   | 0.82   | 0.77   | 0.62   | 0.30  | 0.64  | 0.40  | NR    | NR    | NR    |
| 23   | 0.67  | 4.00  | 4.04   | 0.80   | 0.80   | 0.62   | 0.30  | 0.70  | 0.36  | NR    | NR    | NR    |
| 24   | 0.59  | 2.69  | 3.28   | 0.77   | 0.75   | 0.58   | 0.27  | 0.44  | 3.31  | NR    | NR    | NR    |
| 25   | 0.54  | 2.13  | 2.81   | 0.75   | 4.94   | 0.55   | 0.27  | 0.42  | 0.74  | NR    | NR    | NR    |
| 26   | 0.47  | 1.65  | 2.84   | 0.71   | 8.17   | 0.54   | 0.27  | 0.50  | 0.36  | NR    | NR    | NR    |
| 27   | 0.46  | 1.52  | 2.92   | 0.67   | 3.49   | 0.54   | 0.27  | 1.63  | 0.33  | NR    | NR    | NR    |
| 28   | 0.45  | 1.44  | 2.90   | 0.63   | 1.99   | 0.50   | 0.24  | 0.61  | 0.33  | NR    | NR    | NR    |
| 29   | 0.43  |       | 2.64   | 10.83  | 1.47   | 0.46   | 0.59  | 0.58  | 0.33  | NR    | NR    | NR    |
| 30   | 0.42  |       | 2.29   | 209.92 | 1.19   | 0.46   | 0.33  | 0.57  | 0.17  | NR    | NR    | NR    |
| 31   | 0.42  |       | 1.94   |        | 73.06  | 0.11   | 0.20  | 0.55  |       | NR    | NR    | NR    |
| MEAN   | 0.445 | 2.842 | 20.564 | 9.697  | 17.653 | 7.296  | 0.410 | 0.990 | 0.650 |       |       |       |
| INCRS  | 0.010 | 0.057 | 0.456  | 0.208  | 0.391  | 0.156  | 0.009 | 0.022 | 0.014 |       |       |       |
| STA AV   | 0.005 | 0.008 | 0.062  | 0.073  | 0.117  | 0.099  | 0.012 | 0.035 | 0.031 | 0.081 | 0.038 | 0.007 |

NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2,775. STA AV based on 13 yr (1962-74) record period. This station was discontinued as of October 1, 1974.

| 1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED 411 AT CHICKASAW  |          |          |           |        |           |          |        |        |        |          |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |
| EVENT OF APRIL 29 - MAY 1, 1974  |          |          |           |        |           |          |        |        |        |          |
| RG 000109  |          |          | RG 000109 |        |           |          |        |        |        |          |
| 4-29   | 0.86     | 0.000    | 4-29      | 2050   | 0.0       | 0.0      | 4-29   | 423    | 0.620  | 0.0      |
|  |          |          |           | 2051   | 0.6000    | 0.01     |        | 436    | 0.960  | 0.0000   |
|  |          |          |           | 2053   | 0.6000    | 0.03     |        | 448    | 3.230  | 0.0000   |
|  |          |          |           | 2056   | 0.4000    | 0.05     |        | 506    | 7.700  | 0.0001   |
|  |          |          |           | 2105   | 0.2667    | 0.09     |        | 518    | 13.760 | 0.0001   |
| WATERSHED CONDITIONS:<br>From a revised 1974 survey;<br>sowed crop - 34%; row crop -<br>1%; alfalfa - 5%; pasture<br>and range - 51%; miscel-<br>laneous - 9%. |          |          |           | 2109   | 0.3000    | 0.11     |        | 530    | 15.560 | 0.0002   |
|  |          |          |           | 2138   | 0.0       | 0.11     |        | 606    | 11.470 | 0.0005   |
|  |          |          |           | 2147   | 0.0667    | 0.12     |        | 648    | 5.090  | 0.0006   |
|  |          |          |           | 2202   | 0.0400    | 0.13     |        | 718    | 2.650  | 0.0007   |
|  |          |          |           | 2207   | 0.1200    | 0.14     |        | 741    | 2.380  | 0.0007   |
|  |          |          |           | 2213   | 0.1000    | 0.15     |        | 806    | 3.330  | 0.0008   |
|  |          |          |           | 2214   | 0.6000    | 0.16     |        | 836    | 7.070  | 0.0008   |
|  |          |          |           | 2215   | 1.7988    | 0.19     |        | 848    | 7.860  | 0.0009   |
|  |          |          |           | 2218   | 1.4000    | 0.26     |        | 936    | 8.360  | 0.0011   |
|  |          |          |           | 2220   | 1.5000    | 0.31     |        | 1036   | 5.220  | 0.0013   |
|  |          |          |           | 2225   | 0.9600    | 0.39     |        | 1123   | 2.210  | 0.0014   |
|  |          |          |           | 2226   | 4.2010    | 0.46     |        | 1206   | 1.260  | 0.0014   |
|  |          |          |           | 2228   | 2.4000    | 0.54     |        | 1506   | 0.710  | 0.0015   |
|  |          |          |           | 2230   | 3.0000    | 0.64     |        | 1948   | 0.620  | 0.0016   |
|  |          |          |           | 2232   | 0.9000    | 0.67     |        | 2000   | 1.260  | 0.0016   |
|  |          |          |           | 2233   | 1.2000    | 0.69     |        | 2006   | 6.620  | 0.0016   |
|  |          |          |           | 2237   | 0.6000    | 0.73     |        | 2011   | 17.720 | 0.0016   |
|  |          |          |           | 2238   | 1.2000    | 0.75     |        | 2018   | 28.170 | 0.0017   |
|  |          |          |           | 2241   | 0.8000    | 0.79     |        | 2036   | 39.630 | 0.0020   |
|  |          |          |           | 2243   | 0.9000    | 0.82     |        | 2048   | 38.880 | 0.0022   |
|  |          |          |           | 2244   | 1.8000    | 0.85     |        | 2100   | 34.870 | 0.0025   |
|  |          |          |           | 2246   | 3.3000    | 0.96     |        | 2123   | 24.210 | 0.0028   |
|  |          |          |           | 2248   | 1.2000    | 1.00     |        | 2136   | 27.230 | 0.0030   |
|  |          |          |           | 2249   | 1.2000    | 1.02     |        | 2141   | 39.630 | 0.0030   |
|  |          |          |           | 2256   | 0.4286    | 1.07     |        | 2148   | 50.100 | 0.0032   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978.

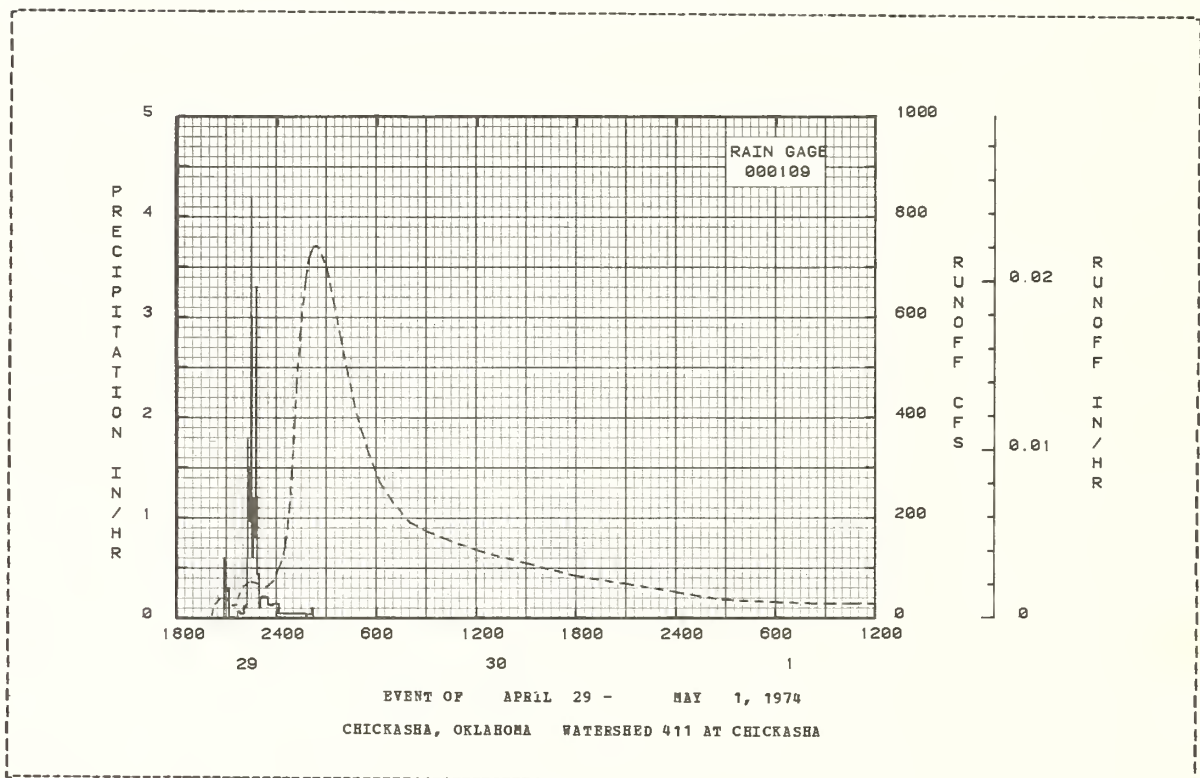


| 1974  |          |          | SELECTED RUNOFF EVENT |        |           |          | CRICKASBA, OKLAHOMA WATERSHED 411 AT CRICKASBA |        |         |          |
|---|----------|----------|-----------------------|--------|-----------|----------|--|--------|---------|----------|
| ANTECEDENT CONDITIONS                       |          |          | RAINFALL              |        |           |          | RUNOFF   |        |         |          |
| Date  | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day                                      | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches) | Mo-Day   | of Day | (cfs)   | (inches) |
| EVENT OF APRIL 29 - MAY 1, 1974 (CONTINUED) |          |          |                       |        |           |          |  |        |         |          |
| 4-29  |          |          |                       | 2302   | 0.1000    | 1.08     | 4-29   | 2200   | 63.300  | 0.0035   |
|   |          |          |                       | 2308   | 0.2000    | 1.10     |  | 2218   | 71.270  | 0.0041   |
|   |          |          |                       | 2322   | 0.2143    | 1.15     |  | 2230   | 71.780  | 0.0046   |
|   |          |          |                       | 2328   | 0.2000    | 1.17     |  | 2323   | 61.860  | 0.0063   |
|   |          |          |                       | 2337   | 0.1333    | 1.19     |  | 2348   | 74.910  | 0.0072   |
| 4-30  |          |          |                       | 2347   | 0.1200    | 1.21     | 4-30   | 2400   | 89.270  | 0.0077   |
|   |          |          |                       | 8      | 0.1429    | 1.26     |  | 18     | 113.290 | 0.0086   |
|   |          |          |                       | 146    | 0.0429    | 1.33     |  | 30     | 141.770 | 0.0093   |
|   |          |          |                       | 151    | 0.0       | 1.33     |  | 36     | 163.140 | 0.0098   |
|   |          |          |                       | 207    | 0.0375    | 1.34     |  | 41     | 195.510 | 0.0102   |
|   |          |          |                       | 213    | 0.1000    | 1.35     |  | 48     | 231.910 | 0.0110   |
|   |          |          |                       | 219    | 0.0       | 1.35     |  | 53     | 288.319 | 0.0116   |
|   |          |          |                       |        |           |          |  | 100    | 348.810 | 0.0127   |
|   |          |          |                       |        |           |          |  | 106    | 403.820 | 0.0139   |
|   |          |          |                       |        |           |          |  | 111    | 478.158 | 0.0149   |
|   |          |          |                       |        |           |          |  | 118    | 523.590 | 0.0167   |
|   |          |          |                       |        |           |          |  | 123    | 562.090 | 0.0180   |
|   |          |          |                       |        |           |          |  | 130    | 609.850 | 0.0201   |
|   |          |          |                       |        |           |          |  | 141    | 664.580 | 0.0236   |
|   |          |          |                       |        |           |          |  | 148    | 692.860 | 0.0259   |
|   |          |          |                       |        |           |          |  | 153    | 714.908 | 0.0277   |
|   |          |          |                       |        |           |          |  | 211    | 740.790 | 0.0342   |
|   |          |          |                       |        |           |          |  | 218    | 740.790 | 0.0367   |
|   |          |          |                       |        |           |          |  | 230    | 737.310 | 0.0411   |
|   |          |          |                       |        |           |          |  | 300    | 694.540 | 0.0518   |
|   |          |          |                       |        |           |          |  | 330    | 614.580 | 0.0615   |
|   |          |          |                       |        |           |          |  | 353    | 545.628 | 0.0682   |
|   |          |          |                       |        |           |          |  | 418    | 480.938 | 0.0745   |
|   |          |          |                       |        |           |          |  | 441    | 420.490 | 0.0797   |
|   |          |          |                       |        |           |          |  | 506    | 371.520 | 0.0846   |
|   |          |          |                       |        |           |          |  | 536    | 321.178 | 0.0898   |
|   |          |          |                       |        |           |          |  | 611    | 270.520 | 0.0949   |
|   |          |          |                       |        |           |          |  | 700    | 230.010 | 0.1010   |
|   |          |          |                       |        |           |          |  | 800    | 189.480 | 0.1072   |
|   |          |          |                       |        |           |          |  | 900    | 171.960 | 0.1126   |
|   |          |          |                       |        |           |          |  | 1030   | 152.260 | 0.1199   |
|   |          |          |                       |        |           |          |  | 1230   | 129.560 | 0.1282   |
|   |          |          |                       |        |           |          |  | 1500   | 108.760 | 0.1371   |
|   |          |          |                       |        |           |          |  | 1800   | 83.040  | 0.1457   |
|   |          |          |                       |        |           |          |  | 2100   | 67.720  | 0.1524   |
|   |          |          |                       |        |           |          | 5- 1   | 2400   | 50.960  | 0.1577   |
|   |          |          |                       |        |           |          |  | 130    | 42.720  | 0.1598   |
|   |          |          |                       |        |           |          |  | 300    | 35.940  | 0.1616   |
|   |          |          |                       |        |           |          |  | 600    | 31.090  | 0.1646   |
|   |          |          |                       |        |           |          |  | 830    | 28.170  | 0.1668   |
|   |          |          |                       |        |           |          |  | 941    | 28.810  | 0.1678   |
|   |          |          |                       |        |           |          |  | 1030   | 28.170  | 0.1685   |
|   |          |          |                       |        |           |          |  | 1111   | 29.130  | 0.1690   |
|   |          |          |                       |        |           |          |  | 1206   | 27.540  | 0.1698   |
|   |          |          |                       |        |           |          |  | 1241   | 34.520  | 0.1703   |
|   |          |          |                       |        |           |          |  | 1330   | 37.390  | 0.1712   |
|   |          |          |                       |        |           |          |  | 1430   | 33.470  | 0.1723   |
|   |          |          |                       |        |           |          |  | 1448   | 42.320  | 0.1726   |
|   |          |          |                       |        |           |          |  | 1500   | 61.860  | 0.1729   |
|   |          |          |                       |        |           |          |  | 1511   | 83.590  | 0.1733   |
|   |          |          |                       |        |           |          |  | 1530   | 102.450 | 0.1742   |
|   |          |          |                       |        |           |          |  | 1600   | 120.600 | 0.1759   |
|   |          |          |                       |        |           |          |  | 1630   | 154.550 | 0.1779   |
|   |          |          |                       |        |           |          |  | 1641   | 186.920 | 0.1788   |
|   |          |          |                       |        |           |          |  | 1653   | 227.180 | 0.1801   |
|   |          |          |                       |        |           |          |  | 1706   | 274.648 | 0.1817   |
|   |          |          |                       |        |           |          |  | 1711   | 311.128 | 0.1824   |
|   |          |          |                       |        |           |          |  | 1723   | 369.100 | 0.1845   |
|   |          |          |                       |        |           |          |  | 1736   | 427.000 | 0.1870   |
|   |          |          |                       |        |           |          |  | 1748   | 483.719 | 0.1897   |
|   |          |          |                       |        |           |          |  | 1800   | 526.500 | 0.1927   |
|   |          |          |                       |        |           |          |  | 1830   | 598.888 | 0.2011   |
|   |          |          |                       |        |           |          |  | 1900   | 617.740 | 0.2102   |
|   |          |          |                       |        |           |          |  | 1930   | 602.010 | 0.2193   |
|   |          |          |                       |        |           |          |  | 2011   | 550.090 | 0.2310   |
|   |          |          |                       |        |           |          |  | 2048   | 482.330 | 0.2405   |
|   |          |          |                       |        |           |          |  | 2118   | 437.520 | 0.2473   |
|   |          |          |                       |        |           |          |  | 2200   | 373.958 | 0.2558   |
|   |          |          |                       |        |           |          |  | 2241   | 320.060 | 0.2628   |
|   |          |          |                       |        |           |          |  | 2330   | 280.918 | 0.2701   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002978.

| 1974 SELECTED RUNOFF EVENT                  |          |          | CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA |        |           |          |        |        |         |          |  |
|---|----------|----------|--|--------|-----------|----------|--------|--------|---------|----------|--|
| ANTECEDENT CONDITIONS                       |          |          | RAINFALL                                       |        |           | RUNOFF   |        |        |         |          |  |
| Date  | Rainfall | Runoff   | Date   | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |  |
| Mo-Day                                      | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |  |
| EVENT OF APRIL 29 - MAY 1, 1974 (CONTINUED) |          |          |  |        |           |          |        |        |         |          |  |
|   |          |          |  |        |           |          | 5- 1   | 2400   | 258.310 | 0.2742   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978.



## CRICKASRA, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 29, T. 7 N., R. 6 W., lat. 35 deg. 03 min. N., long. 97 deg. 51 min. W., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

AREA: 38020.00 acres 59.40 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CRICKASRA, OKLAHOMA |       |   |       | WATERSHED 511 NEAR TABLER |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------------------|-------|---|-------|---------------------------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                 | Jun   | Jul                                       | Aug   | Sep                       | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.11              | 1.75  | 3.09   | 3.78  | 2.96                | 1.30  | 2.04                                      | 4.97  | 2.99                      | 5.61  | 1.44  | 1.63  | 31.67  |       |        |       |
|   | Q | 0.171             | 0.202 | 0.964  | 0.441 | 0.479               | 0.138 | 0.093                                     | 0.456 | 0.073                     | 0.381 | 0.319 | 0.170 | 3.886  |       |        |       |
| STA AV  | P | 0.83              | 1.12  | 2.01   | 2.93  | 3.46                | 3.07  | 2.02                                      | 3.21  | 3.94                      | 2.68  | 1.96  | 1.02  | 28.25  |       |        |       |
|   | Q | 0.064             | 0.064 | 0.237  | 0.314 | 0.314               | 0.348 | 0.040                                     | 0.169 | 0.213                     | 0.193 | 0.140 | 0.077 | 2.172  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                     |       |   |       |                           |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours             |       | Maximum Volume for Selected Time Interval |       |                           |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                | Vol.  | Date                                      | Vol.  | Date                      | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-10              | 0.051 | 3-10   | 0.050 | 3-10                | 0.098 | 3-10                                      | 0.231 | 3-10                      | 0.305 | 3-10  | 0.374 | 3-10   | 0.459 | 3- 8   | 0.757 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                     |       |   |       |                           |       |       |       |        |       |        |       |
|   |   | 4-12              | 0.086 | 4-12   | 0.086 | 4-12                | 0.169 | 10- 2                                     | 0.462 | 10- 2                     | 0.729 | 10- 2 | 0.796 | 10- 2  | 0.832 | 5-31   | 1.996 |
|   |   | 1967              |       | 1967   |       | 1967                |       | 1971                                      |       | 1971                      |       | 1971  |       | 1971   |       | 1973   |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 23%; row crop - 3%; alfalfa - 3%; pasture and range - 62% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.13-11 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CRICKASRA, OKLAHOMA WATERSHED 511 NEAR TABLER |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.18 | 0.0  | 0.0  | 0.42 | 0.03 | 0.0  | 0.0  | 0.0  |   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.53 | 0.0  | 0.45 | 0.0  |   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.10 | 0.0  | 0.0  | 0.35 | 0.0  |   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 |   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.01 |   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.07 | 0.05 | 0.0  |   |  |
| 8                                 | 0.0  | 0.0  | 1.30 | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 9                                 | 0.08 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 1.67 | 0.0  | 0.0  | 0.34 | 0.0  |   |  |
| 10                                | 0.0  | 0.0  | 1.47 | 0.01 | 0.0  | 0.0  | 0.0  | 2.03 | 0.0  | 0.0  | 0.18 | 0.81 |   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 |   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  |   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |   |  |
| 14                                | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.15 | 0.0  | 0.0  |   |  |
| 15                                | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  | 0.0  | 0.0  |   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.0  | 0.0  |   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 18                                | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  |   |  |
| 20                                | 0.0  | 0.89 | 0.27 | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  |   |  |
| 21                                | 0.0  | 0.60 | 0.0  | 0.01 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 22                                | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 1.13 | 1.19 | 0.0  | 0.0  |   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.83 | 0.0  | 0.0  | 0.0  | 0.09 | 0.55 | 0.0  | 0.0  |   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.21 | 0.0  | 0.0  |   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.07 | 0.0  | 0.0  |   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.93 | 0.0  | 0.0  |   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.27 | 0.0  | 0.0  | 1.70 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  |   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.93 | 0.0  | 0.25 |   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.87 | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.19 |   |  |
| TOTAL                             | 0.11 | 1.75 | 3.09 | 3.78 | 2.96 | 1.30 | 2.04 | 4.97 | 2.99 | 5.61 | 1.44 | 1.63 |   |  |
| STA AV                            | 0.83 | 1.12 | 2.01 | 2.93 | 3.46 | 3.07 | 2.02 | 3.21 | 3.94 | 2.68 | 1.96 | 1.02 |   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER |       |        |        |        |        |       |       |        |       |        |        |       |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec   |
| 1   | 8.35  | 7.91   | 9.55   | 12.99  | 179.70 | 13.53 | 2.07  | 5.99   | 2.70  | 2.82   | 64.79  | 9.64  |
| 2   | 7.95  | 8.12   | 9.55   | 12.10  | 171.41 | 9.05  | 1.89  | 9.19   | 4.05  | 2.80   | 83.46  | 10.02 |
| 3   | 7.88  | 8.09   | 9.51   | 11.27  | 57.44  | 8.59  | 1.85  | 3.72   | 3.71  | 2.70   | 57.13  | 10.30 |
| 4   | 7.88  | 7.66   | 9.23   | 10.90  | 32.99  | 8.98  | 1.81  | 2.61   | 3.13  | 2.68   | 35.91  | 10.33 |
| 5   | 7.88  | 7.40   | 8.69   | 10.65  | 24.95  | 7.99  | 2.00  | 2.15   | 2.91  | 2.68   | 21.57  | 10.26 |
| 6   | 7.88  | 7.34   | 8.22   | 10.61  | 20.57  | 13.14 | 1.78  | 2.22   | 3.24  | 2.75   | 15.10  | 9.75  |
| 7   | 7.88  | 7.13   | 8.22   | 10.57  | 17.47  | 35.06 | 1.58  | 2.51   | 3.73  | 3.17   | 12.31  | 8.94  |
| 8   | 7.88  | 7.01   | 40.33  | 10.40  | 15.91  | 12.94 | 1.46  | 2.52   | 4.44  | 3.28   | 11.34  | 7.89  |
| 9   | 7.79  | 7.50   | 213.00 | 10.57  | 15.32  | 14.20 | 1.25  | 11.49  | 5.40  | 3.50   | 11.80  | 7.23  |
| 10  | 7.22  | 7.40   | 517.41 | 15.14  | 14.41  | 11.36 | 1.12  | 483.22 | 5.49  | 3.50   | 13.79  | 9.63  |
| 11  | 7.13  | 7.40   | 213.49 | 99.25  | 13.65  | 8.84  | 0.84  | 80.83  | 5.10  | 3.28   | 12.69  | 16.27 |
| 12  | 7.29  | 7.60   | 91.20  | 24.64  | 12.68  | 7.42  | 0.70  | 41.04  | 4.31  | 3.22   | 11.06  | 13.67 |
| 13  | 8.57  | 7.63   | 54.75  | 15.95  | 11.60  | 6.51  | 0.74  | 18.88  | 3.14  | 3.15   | 10.27  | 11.22 |
| 14  | 10.59 | 7.60   | 39.29  | 13.02  | 11.12  | 6.19  | 1.02  | 8.98   | 2.27  | 3.41   | 9.36   | 9.47  |
| 15  | 10.90 | 7.40   | 28.60  | 12.06  | 10.40  | 5.89  | 1.07  | 6.23   | 2.30  | 3.78   | 9.01   | 8.87  |
| 16  | 10.97 | 7.37   | 23.09  | 11.27  | 10.02  | 5.24  | 1.08  | 4.77   | 4.06  | 3.70   | 8.97   | 8.05  |
| 17  | 11.37 | 7.40   | 21.11  | 10.90  | 9.54   | 5.11  | 1.13  | 3.77   | 4.12  | 3.54   | 8.97   | 8.12  |
| 18  | 11.12 | 7.73   | 20.68  | 10.68  | 8.97   | 4.83  | 1.07  | 3.24   | 3.47  | 3.37   | 8.97   | 8.05  |
| 19  | 10.44 | 8.46   | 19.38  | 10.90  | 8.42   | 3.98  | 1.02  | 2.82   | 3.32  | 3.11   | 8.90   | 7.53  |
| 20  | 10.26 | 8.18   | 19.02  | 11.15  | 7.92   | 3.70  | 1.06  | 2.46   | 3.66  | 2.97   | 8.45   | 7.78  |
| 21  | 9.82  | 80.04  | 19.64  | 11.23  | 7.54   | 3.54  | 1.06  | 2.31   | 3.76  | 2.97   | 8.18   | 7.66  |
| 22  | 9.51  | 24.41  | 18.23  | 11.27  | 6.72   | 3.34  | 1.00  | 2.20   | 3.27  | 3.07   | 8.22   | 7.60  |
| 23  | 9.01  | 14.94  | 17.45  | 10.19  | 6.31   | 2.87  | 0.95  | 2.19   | 3.05  | 3.13   | 8.52   | 7.37  |
| 24  | 8.73  | 11.70  | 15.96  | 9.78   | 6.59   | 2.72  | 1.01  | 2.20   | 4.62  | 7.46   | 7.98   | 7.13  |
| 25  | 8.69  | 10.19  | 15.45  | 9.54   | 12.37  | 2.80  | 1.13  | 2.31   | 7.92  | 11.14  | 7.88   | 6.91  |
| 26  | 8.69  | 9.78   | 15.41  | 9.26   | 13.58  | 2.82  | 1.14  | 2.59   | 5.67  | 20.15  | 7.95   | 6.91  |
| 27  | 8.69  | 9.58   | 15.41  | 9.04   | 9.31   | 2.80  | 1.09  | 3.68   | 4.38  | 9.34   | 8.39   | 7.10  |
| 28  | 8.66  | 9.55   | 15.32  | 9.30   | 7.62   | 2.68  | 1.14  | 3.73   | 3.44  | 59.41  | 8.76   | 7.19  |
| 29  | 8.42  |        | 14.75  | 32.46  | 6.29   | 2.52  | 6.32  | 2.93   | 2.89  | 23.38  | 9.47   | 7.57  |
| 30  | 8.15  |        | 14.32  | 257.18 | 5.57   | 2.22  | 97.02 | 2.70   | 2.82  | 193.07 | 9.72   | 7.87  |
| 31  | 7.91  |        | 13.69  |        | 28.29  |       | 9.45  | 2.65   |       | 212.72 |        | 4.53  |
| MEAN  | 8.823 | 11.519 | 49.676 | 23.475 | 24.666 | 7.362 | 4.769 | 23.489 | 3.879 | 19.653 | 16.964 | 8.738 |
| INCHES  | 0.171 | 0.202  | 0.964  | 0.441  | 0.479  | 0.138 | 0.093 | 0.456  | 0.073 | 0.381  | 0.319  | 0.170 |
| STA AV  | 0.064 | 0.064  | 0.237  | 0.314  | 0.314  | 0.348 | 0.040 | 0.169  | 0.213 | 0.193  | 0.140  | 0.077 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. STA AV based on 13 yr (1962-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER   |          |          |          |        |           |          |        |        |         |          |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           | RUNOFF   |        |        |         |          |
| Date   | Rainfall | Rnoff    | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 9 - 13, 1974   |          |          |          |        |           |          |        |        |         |          |
| RG 000068  |          |          |          |        |           |          |        |        |         |          |
| 8-9  | 0.0      | 0.001    | 8-9      | 2040   | 0.0       | 0.0      | 8-9    | 2100   | 2.430   | 0.0      |
|  |          |          |          | 2057   | 1.1647    | 0.33     |        | 2130   | 10.330  | 0.0001   |
|  |          |          |          | 2104   | 3.4286    | 0.73     |        | 2200   | 28.950  | 0.0003   |
|  |          |          |          | 2112   | 1.9500    | 0.99     |        | 2241   | 56.860  | 0.0011   |
|  |          |          |          | 2129   | 0.9529    | 1.26     |        | 2300   | 90.430  | 0.0017   |
| WATERSHED CONDITIONS:<br>From a revised 1974 survey;<br>sowed crop - 23%; row crop -<br>3%; alfalfa - 3%; pasture<br>and range - 62%; and miscel-<br>laneous - 9%. |          |          |          |        |           |          |        |        |         |          |
|  |          |          |          | 2146   | 0.3176    | 1.35     |        | 2318   | 139.110 | 0.0026   |
|  |          |          |          | 2213   | 0.1111    | 1.40     |        | 2341   | 187.760 | 0.0042   |
|  |          |          |          | 2257   | 0.0545    | 1.44     |        | 2400   | 204.120 | 0.0059   |
|  |          |          |          | 2337   | 0.0       | 1.44     | 8-10   | 6      | 207.460 | 0.0064   |
|  |          |          | 8-10     | 24     | 0.0255    | 1.46     |        | 18     | 207.460 | 0.0075   |
|  |          |          |          | 123    | 0.0203    | 1.48     |        | 30     | 205.230 | 0.0086   |
|  |          |          |          | 208    | 0.1867    | 1.62     |        | 100    | 192.070 | 0.0111   |
|  |          |          |          | 231    | 0.1565    | 1.68     |        | 130    | 161.610 | 0.0135   |
|  |          |          |          | 300    | 0.0828    | 1.72     |        | 141    | 161.610 | 0.0142   |
|  |          |          |          | 309    | 0.4000    | 1.78     |        | 200    | 187.760 | 0.0157   |
|  |          |          |          | 314    | 2.2800    | 1.97     |        | 218    | 238.490 | 0.0173   |
|  |          |          |          | 320    | 2.4000    | 2.21     |        | 241    | 294.070 | 0.0200   |
|  |          |          |          | 327    | 1.2857    | 2.36     |        | 300    | 339.168 | 0.0226   |
|  |          |          |          | 343    | 0.1500    | 2.40     |        | 330    | 368.320 | 0.0272   |
|  |          |          |          | 414    | 0.1548    | 2.48     |        | 341    | 372.560 | 0.0290   |
|  |          |          |          | 431    | 0.3882    | 2.59     |        | 348    | 372.560 | 0.0301   |
|  |          |          |          | 436    | 1.9200    | 2.75     |        | 430    | 354.310 | 0.0368   |
|  |          |          |          | 444    | 1.8750    | 3.00     |        | 530    | 333.719 | 0.0457   |
|  |          |          |          | 502    | 0.5000    | 3.15     |        | 548    | 336.438 | 0.0484   |
|  |          |          |          | 528    | 0.2308    | 3.25     |        | 630    | 392.628 | 0.0550   |
|  |          |          |          | 601    | 0.2364    | 3.38     |        | 700    | 446.188 | 0.0605   |
|  |          |          |          | 624    | 0.2348    | 3.47     |        | 730    | 517.020 | 0.0668   |
|  |          |          |          | 651    | 0.2667    | 3.59     |        | 748    | 585.208 | 0.0711   |
|  |          |          |          | 717    | 0.2077    | 3.68     |        | 800    | 665.780 | 0.0743   |
|  |          |          |          | 737    | 0.0900    | 3.71     |        | 811    | 746.770 | 0.0777   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.

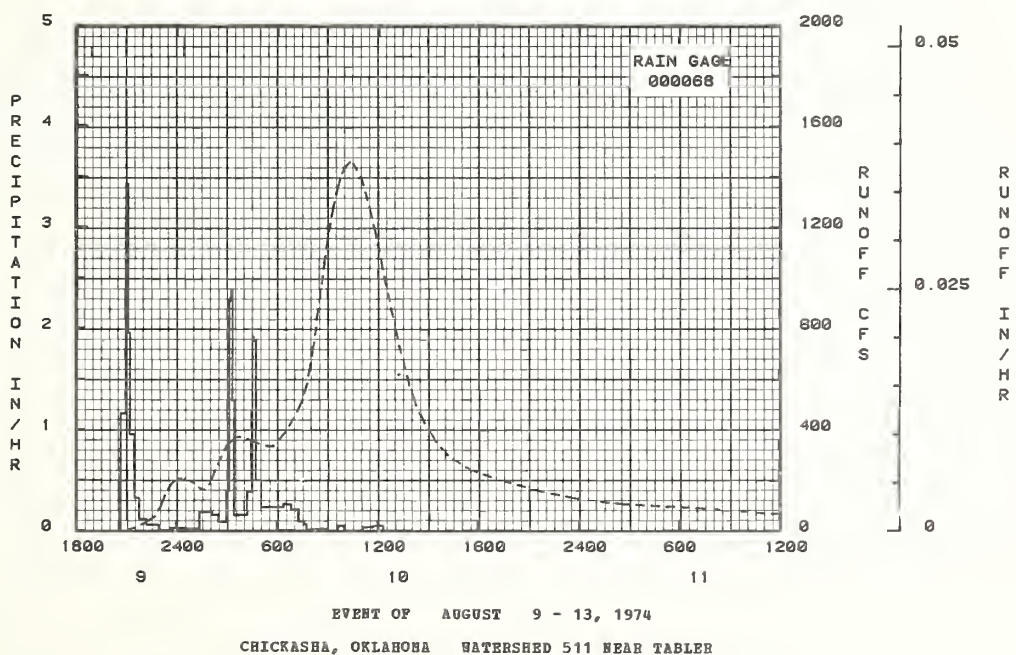


1974 SELECTED RUNOFF EVENT

CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

| ANTECEDENT CONDITIONS                    |                      |                    | RAINFALL       |                |                      |                  | RUNOFF         |                |               |                  |
|--|----------------------|--------------------|----------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| Date<br>Mo-Day                           | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF AUGUST 9 - 13, 1974 (CONTINUED) |                      |                    |                |                |                      |                  |                |                |               |                  |
| 8-10                                     |                      |                    | 747            |                | 0.0600               | 3.72             | 8-10           | 823            | 849.310       | 0.0819           |
|  |                      |                    | 752            |                | 0.0                  | 3.72             |                | 836            | 950.918       | 0.0870           |
|  |                      |                    | 755            |                | 0.0                  | 3.72             |                | 848            | 1057.168      | 0.0922           |
|  |                      |                    | 829            |                | 0.0176               | 3.73             |                | 900            | 1156.698      | 0.0980           |
|  |                      |                    | 904            |                | 0.0171               | 3.74             |                | 918            | 1273.870      | 0.1075           |
|  |                      |                    | 938            |                | 0.0                  | 3.74             |                | 941            | 1388.330      | 0.1208           |
|  |                      |                    | 1002           |                | 0.0500               | 3.76             |                | 1000           | 1439.658      | 0.1325           |
|  |                      |                    | 1037           |                | 0.0                  | 3.76             |                | 1018           | 1459.418      | 0.1438           |
|  |                      |                    | 1109           |                | 0.0                  | 3.76             |                | 1030           | 1451.990      | 0.1514           |
|  |                      |                    | 1144           |                | 0.0343               | 3.78             |                | 1100           | 1395.610      | 0.1700           |
|  |                      |                    | 1220           |                | 0.0500               | 3.81             |                | 1130           | 1269.178      | 0.1874           |
|  |                      |                    |                |                |                      |                  |                | 1153           | 1163.458      | 0.1995           |
|  |                      |                    |                |                |                      |                  |                | 1211           | 1063.688      | 0.2082           |
|  |                      |                    |                |                |                      |                  |                | 1230           | 967.610       | 0.2166           |
|  |                      |                    |                |                |                      |                  |                | 1248           | 875.270       | 0.2238           |
|  |                      |                    |                |                |                      |                  |                | 1311           | 761.898       | 0.2320           |
|  |                      |                    |                |                |                      |                  |                | 1330           | 671.178       | 0.2379           |
|  |                      |                    |                |                |                      |                  |                | 1353           | 578.408       | 0.2442           |
|  |                      |                    |                |                |                      |                  |                | 1418           | 496.120       | 0.2500           |
|  |                      |                    |                |                |                      |                  |                | 1448           | 426.530       | 0.2560           |
|  |                      |                    |                |                |                      |                  |                | 1530           | 351.540       | 0.2631           |
|  |                      |                    |                |                |                      |                  |                | 1611           | 300.540       | 0.2690           |
|  |                      |                    |                |                |                      |                  |                | 1730           | 243.240       | 0.2783           |
|  |                      |                    |                |                |                      |                  |                | 1930           | 196.420       | 0.2898           |
|  |                      |                    |                |                |                      |                  |                | 2130           | 160.140       | 0.2991           |
|  |                      |                    |                |                |                      |                  |                | 2400           | 124.800       | 0.3084           |
|  |                      |                    |                |                |                      |                  | 8-11           | 300            | 104.510       | 0.3173           |
|  |                      |                    |                |                |                      |                  |                | 730            | 88.380        | 0.3286           |
|  |                      |                    |                |                |                      |                  |                | 1800           | 65.870        | 0.3498           |
|  |                      |                    |                |                |                      |                  |                | 2400           | 51.540        | 0.3590           |
|  |                      |                    |                |                |                      |                  | 8-12           | 600            | 43.800        | 0.3664           |
|  |                      |                    |                |                |                      |                  |                | 1200           | 41.170        | 0.3731           |
|  |                      |                    |                |                |                      |                  |                | 2130           | 35.030        | 0.3825           |
|  |                      |                    |                |                |                      |                  |                | 2400           | 30.540        | 0.3846           |
|  |                      |                    |                |                |                      |                  | 8-13           | 600            | 22.650        | 0.3888           |
|  |                      |                    |                |                |                      |                  |                | 1300           | 17.640        | 0.3925           |
|  |                      |                    |                |                |                      |                  |                | 1930           | 14.360        | 0.3952           |
|  |                      |                    |                |                |                      |                  |                | 2130           | 9.780         | 0.3958           |
|  |                      |                    |                |                |                      |                  |                | 2400           | 9.780         | 0.3965           |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.



## CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River: Red River Basin. GAGING STATION--NE 1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min. N., long. 98 deg. 11 min. W., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |   |          |      |       |       |       | CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|----------|------|-------|-------|-------|---|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug      | Sep  | Oct   | Nov   | Dec   | Annual  |       |
| 1974  | P | 0.11              | 2.11  | 2.99   | 3.30  | 4.40    | 1.67  | 0.22                                      | 5.74     | 2.77 | 4.28  | 2.07  | 1.27  | 30.93   |       |
|   | Q | 0.046             | 0.096 | 0.257  | 0.065 | 0.176   | 0.029 | 0.0                                       | 0.0      | 0.0  | 0.004 | 0.151 | 0.090 | 0.914   |       |
| STA AV  | P | 0.77              | 1.04  | 1.85   | 2.76  | 3.78    | 2.80  | 1.84                                      | 2.75     | 4.01 | 2.39  | 1.81  | 0.89  | 26.67   |       |
|   | Q | 0.004             | 0.011 | 0.033  | 0.033 | 0.062   | 0.023 | 0.0                                       | 0.001    | 0.0  | 0.000 | 0.016 | 0.011 | 0.195   |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |          |      |       |       |       |   |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |          |      |       | 1 Day |       | 2 Days  |       |
|   |   | Date              | Date  | Date   | Vol.  | Date    | Vol.  | 6 Hours                                   | 12 Hours | Date | Vol.  | Date  | Vol.  | Date  | Vol.  |
| 1974  |   | 3-11              | 0.001 | 3-11   | 0.001 | 3-11    | 0.003 | 3-11                                      | 0.008    | 3-11 | 0.016 | 3-10  | 0.032 | 3-10  | 0.061 |
|   |   |                   |       |        |       |         |       |   |          |      |       |       |       | 3-9   | 0.159 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |          |      |       |       |       |   |       |
|   |   | 5-11              | 0.004 | 5-11   | 0.004 | 5-11    | 0.007 | 5-11                                      | 0.021    | 5-11 | 0.038 | 5-6   | 0.070 | 5-6   | 0.127 |
|   |   | 1964              |       | 1964   |       | 1964    |       | 1964                                      |          | 1964 |       | 1969  |       | 1969  |       |

NOTES: Watershed conditions: For area between stations 110 and 111 as determined from a revised 1974 survey; sowed crop - 28%; row crop - 6%; alfalfa - 6%; pasture and range - 34%; and miscellaneous - 26%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.10-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |     |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO |      |
|-----------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|---|------|
|                                   | Day | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |   |      |
|                                   | 1   | 0.01 | 0.0  | 0.0  | 0.0  | 1.38 | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  |   |      |
|                                   | 2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 1.17 |   | 0.0  |
|                                   | 3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.36 | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.25 |   | 0.0  |
|                                   | 4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.01 |
|                                   | 6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.05 | 0.0  | 0.08 | 0.0  | 0.07 |   | 0.0  |
|                                   | 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.04 | 0.05 | 0.0  |   | 0.0  |
|                                   | 8   | 0.0  | 0.0  | 1.72 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 9   | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.16 | 0.0  | 0.0  | 0.39 | 0.0  |   | 0.0  |
|                                   | 10  | 0.0  | 0.0  | 1.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.87 | 0.0  | 0.0  | 0.16 | 0.63 |   | 0.0  |
|                                   | 11  | 0.0  | 0.0  | 0.0  | 1.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 |   | 0.0  |
|                                   | 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 13  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  |   | 0.0  |
|                                   | 14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  |   | 0.0  |
|                                   | 15  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.41 | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.75 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 18  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 19  | 0.01 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 20  | 0.0  | 1.62 | 0.25 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 21  | 0.0  | 0.38 | 0.0  | 0.0  | 0.50 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 22  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.07 | 1.18 | 1.21 | 0.0  | 0.0  |   | 0.0  |
|                                   | 25  | 0.0  | 0.0  | 0.0  | 0.0  | 1.42 | 0.0  | 0.0  | 0.0  | 0.08 | 0.06 | 0.0  | 0.0  |   | 0.0  |
|                                   | 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |   | 0.0  |
|                                   | 27  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 0.0  | 0.01 | 0.0  | 0.0  |   | 0.0  |
|                                   | 28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.86 | 0.0  | 0.0  |   | 0.0  |
|                                   | 29  | 0.0  | 0.0  | 0.0  | 1.96 | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |   | 0.0  |
|                                   | 30  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.36 | 0.0  | 0.20 |   | 0.0  |
|                                   | 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.96 | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.23 |   | 0.0  |
| TOTAL                             |     | 0.11 | 2.11 | 2.99 | 3.30 | 4.40 | 1.67 | 0.22 | 5.74 | 2.77 | 4.28 | 2.07 | 1.27 |   |      |
| STA AV                            |     | 0.77 | 1.04 | 1.85 | 2.76 | 3.78 | 2.80 | 1.84 | 2.75 | 4.01 | 2.39 | 1.81 | 0.89 |   |      |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED 110 NEAR ANADARKO |        |        |        |        |        |        |     |       |     |        |        |        |
|---|--------|--------|--------|--------|--------|--------|-----|-------|-----|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul | Aug   | Sep | Oct    | Nov    | Dec    |
| 1   | 0.990  | 1.647  | 3.180  | 2.669  | 5.812  | 3.531  | 0.0 | 0.0   | 0.0 | 0.0    | 4.861  | 1.816  |
| 2   | 0.990  | 1.565  | 3.130  | 2.457  | 25.123 | 3.261  | 0.0 | 0.0   | 0.0 | 0.0    | 6.772  | 1.734  |
| 3   | 0.990  | 1.736  | 3.114  | 2.057  | 22.352 | 2.985  | 0.0 | 0.0   | 0.0 | 0.0    | 12.504 | 1.746  |
| 4   | 0.990  | 1.986  | 2.954  | 1.760  | 15.816 | 2.624  | 0.0 | 0.0   | 0.0 | 0.0    | 15.147 | 1.931  |
| 5   | 0.990  | 1.894  | 2.547  | 1.734  | 12.356 | 2.299  | 0.0 | 0.0   | 0.0 | 0.0    | 13.454 | 2.122  |
| 6   | 1.000  | 1.580  | 2.395  | 1.802  | 10.724 | 2.165  | 0.0 | 0.0   | 0.0 | 0.0    | 10.825 | 2.179  |
| 7   | 1.071  | 1.517  | 2.410  | 1.721  | 9.335  | 2.179  | 0.0 | 0.0   | 0.0 | 0.0    | 8.756  | 2.351  |
| 8   | 1.127  | 1.442  | 3.403  | 1.632  | 8.396  | 2.337  | 0.0 | 0.0   | 0.0 | 0.0    | 7.570  | 2.380  |
| 9   | 1.011  | 1.430  | 10.530 | 1.620  | 7.184  | 2.241  | 0.0 | 0.0   | 0.0 | 0.0    | 7.100  | 2.366  |
| 10  | 0.990  | 1.419  | 26.055 | 1.701  | 5.472  | 1.910  | 0.0 | 0.0   | 0.0 | 0.0    | 6.776  | 2.359  |
| 11  | 0.980  | 1.317  | 33.815 | 2.280  | 4.427  | 1.437  | 0.0 | 0.0   | 0.0 | 0.0    | 6.685  | 2.861  |
| 12  | 0.920  | 1.104  | 30.281 | 2.992  | 3.694  | 0.990  | 0.0 | 0.0   | 0.0 | 0.0    | 6.307  | 3.367  |
| 13  | 0.975  | 1.081  | 23.605 | 3.604  | 3.150  | 0.614  | 0.0 | 0.0   | 0.0 | 0.0    | 5.537  | 3.636  |
| 14  | 1.415  | 1.160  | 16.837 | 3.792  | 2.781  | 0.575  | 0.0 | 0.0   | 0.0 | 0.0    | 4.930  | 3.670  |
| 15  | 1.780  | 1.239  | 13.311 | 3.759  | 2.636  | 0.354  | 0.0 | 0.0   | 0.0 | 0.0    | 4.691  | 3.670  |
| 16  | 1.842  | 1.239  | 10.655 | 3.417  | 2.620  | 0.221  | 0.0 | 0.0   | 0.0 | 0.0    | 4.347  | 3.652  |
| 17  | 1.917  | 1.160  | 8.926  | 3.116  | 2.605  | 0.081  | 0.0 | 0.0   | 0.0 | 0.0    | 3.630  | 3.531  |
| 18  | 1.930  | 1.081  | 7.880  | 2.737  | 2.486  | 0.066  | 0.0 | 0.0   | 0.0 | 0.0    | 2.736  | 3.432  |
| 19  | 1.944  | 1.070  | 7.147  | 2.301  | 2.244  | 0.104  | 0.0 | 0.0   | 0.0 | 0.0    | 2.530  | 3.531  |
| 20  | 2.012  | 2.360  | 6.666  | 2.069  | 1.871  | 0.106  | 0.0 | 0.0   | 0.0 | 0.0    | 2.605  | 3.652  |
| 21  | 1.944  | 5.346  | 5.960  | 2.026  | 1.734  | 0.081  | 0.0 | 0.0   | 0.0 | 0.0    | 2.605  | 3.670  |
| 22  | 1.930  | 14.542 | 5.746  | 1.917  | 1.720  | 0.055  | 0.0 | 0.0   | 0.0 | 0.0    | 2.500  | 3.670  |
| 23  | 1.930  | 15.084 | 5.124  | 1.746  | 1.696  | 0.007  | 0.0 | 0.0   | 0.0 | 0.0    | 2.395  | 3.652  |
| 24  | 1.944  | 12.222 | 5.020  | 1.707  | 1.617  | 0.0    | 0.0 | 0.0   | 0.0 | 0.0    | 2.380  | 3.565  |
| 25  | 2.012  | 9.606  | 4.981  | 1.632  | 2.129  | 0.0    | 0.0 | 0.0   | 0.0 | 0.0    | 2.311  | 3.652  |
| 26  | 1.957  | 6.884  | 4.769  | 1.620  | 3.289  | 0.0    | 0.0 | 0.0   | 0.0 | 0.0    | 1.872  | 3.652  |
| 27  | 2.040  | 5.047  | 4.830  | 1.620  | 4.529  | 0.0    | 0.0 | 0.0   | 0.0 | 0.0    | 1.646  | 3.547  |
| 28  | 2.151  | 3.666  | 4.636  | 1.672  | 4.690  | 0.0    | 0.0 | 0.0   | 0.0 | 0.0    | 1.620  | 3.547  |
| 29  | 2.255  |        | 4.000  | 2.091  | 4.496  | 0.0    | 0.0 | 0.0   | 0.0 | 0.145  | 1.646  | 3.670  |
| 30  | 2.227  |        | 3.534  | 2.931  | 4.015  | 0.0    | 0.0 | 0.0   | 0.0 | 1.214  | 1.804  | 3.811  |
| 31  | 1.934  |        | 3.116  |        | 3.794  | 0.0    | 0.0 | 0.0   |     | 2.835  |        | 1.961  |
| MEAN  | 1.5546 | 3.6224 | 8.7277 | 2.2730 | 5.9610 | 1.0075 | 0.0 | 0.0   | 0.0 | 0.1353 | 5.2848 | 3.0448 |
| INCHES  | 0.046  | 0.096  | 0.257  | 0.065  | 0.176  | 0.029  | 0.0 | 0.0   | 0.0 | 0.004  | 0.151  | 0.090  |
| STA AV  | 0.004  | 0.011  | 0.033  | 0.033  | 0.062  | 0.023  | 0.0 | 0.001 | 0.0 | 0.000  | 0.016  | 0.011  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2.085. STA AV based on 12 yr (1963-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED 110 NEAR ANADARKO |          |          |           |        |           |          |        |        |        |          |  |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |  |  |
| Date   | Mainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF MARCH 9 - 20, 1974  |          |          |           |        |           |          |        |        |        |          |  |  |
| RG 000128  |          |          | RG 000128 |        |           |          | 3-9    | 700    | 3.260  | 0.0      |  |  |
| 3-10   | 0.0      |          | 3-10      | 335    | 0.0       | 0.0      |        | 900    | 3.960  | 0.0003   |  |  |
| 3-9  |          | 0.001    |           | 336    | 0.6000    | 0.01     |        | 1200   | 8.650  | 0.0010   |  |  |
|  |          |          |           | 409    | 0.0       | 0.01     |        | 1400   | 11.420 | 0.0018   |  |  |
|  |          |          |           | 416    | 0.0857    | 0.02     |        | 1630   | 14.520 | 0.0031   |  |  |
|  |          |          |           | 432    | 0.0375    | 0.03     |        |        |        |          |  |  |
|  |          |          |           | 440    | 0.0750    | 0.04     |        | 1900   | 20.150 | 0.0049   |  |  |
|  |          |          |           | 453    | 0.0462    | 0.05     |        | 2030   | 21.580 | 0.0061   |  |  |
|  |          |          |           | 457    | 0.1500    | 0.06     |        | 2400   | 22.470 | 0.0091   |  |  |
|  |          |          |           | 501    | 0.4500    | 0.09     | 3-10   | 1200   | 25.550 | 0.0206   |  |  |
|  |          |          |           | 504    | 0.4000    | 0.11     |        | 2400   | 30.650 | 0.0339   |  |  |
|  |          |          |           | 514    | 0.3000    | 0.16     | 3-11   | 1200   | 35.750 | 0.0497   |  |  |
|  |          |          |           | 519    | 0.1200    | 0.17     |        | 2400   | 33.110 | 0.0661   |  |  |
|  |          |          |           | 528    | 0.0667    | 0.18     | 3-12   | 1200   | 30.470 | 0.0812   |  |  |
|  |          |          |           | 542    | 0.0       | 0.18     |        | 2400   | 27.075 | 0.0949   |  |  |
|  |          |          |           | 550    | 0.0750    | 0.19     | 3-13   | 1200   | 23.680 | 0.1070   |  |  |
|  |          |          |           | 559    | 0.0667    | 0.20     |        | 2400   | 19.985 | 0.1174   |  |  |
|  |          |          |           | 611    | 0.1000    | 0.22     | 3-14   | 1200   | 16.290 | 0.1260   |  |  |
|  |          |          |           | 620    | 0.1333    | 0.24     |        | 2400   | 14.785 | 0.1334   |  |  |
|  |          |          |           | 636    | 0.1125    | 0.27     | 3-15   | 1200   | 13.280 | 0.1401   |  |  |
|  |          |          |           | 643    | 0.0       | 0.27     |        | 2400   | 11.900 | 0.1460   |  |  |
|  |          |          |           | 646    | 0.2000    | 0.28     | 3-16   | 1200   | 10.520 | 0.1514   |  |  |
|  |          |          |           | 653    | 0.0857    | 0.29     |        | 2400   | 9.680  | 0.1562   |  |  |
|  |          |          |           | 656    | 0.0       | 0.29     | 3-17   | 1200   | 8.840  | 0.1606   |  |  |
|  |          |          |           | 1040   | 0.0       | 0.29     |        | 2400   | 8.345  | 0.1647   |  |  |
|  |          |          |           | 1045   | 0.0       | 0.29     | 3-18   | 1200   | 7.850  | 0.1685   |  |  |
|  |          |          |           | 1047   | 0.3000    | 0.30     |        | 2400   | 7.475  | 0.1722   |  |  |
|  |          |          |           | 1052   | 0.0       | 0.30     | 3-19   | 1200   | 7.100  | 0.1756   |  |  |
|  |          |          |           | 1102   | 0.0600    | 0.31     |        | 2400   | 6.915  | 0.1790   |  |  |
|  |          |          |           | 1105   | 0.4000    | 0.33     | 3-20   | 1200   | 6.730  | 0.1822   |  |  |
|  |          |          |           | 1113   | 0.0750    | 0.34     |        | 2400   | 6.290  | 0.1853   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00039638.





CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SR1/4 sec. 32, T. 6 N., R. 7 W., lat. 34 deg. 57 min. N., long. 97 deg. 57 min. W., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132990.00 acres 207.80 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)  |   |                   |       |        |       | CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR |       |   |       |         |       |          |       |        |       |        |       |        |      |
|--|---|-------------------|-------|--------|-------|---|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|  |   | Jan               | Feb   | Mar    | Apr   | May   | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974   | P | 0.14              | 1.69  | 2.28   | 3.71  | 3.69  | 2.92  | 0.33                                      | 5.67  | 3.95    | 4.67  | 1.31     | 1.33  | 31.69  |       |        |       |        |      |
|  | Q | 0.165             | 0.192 | 0.385  | 0.337 | 0.397   | 0.241 | 0.038                                     | 0.132 | 0.101   | 0.185 | 0.203    | 0.161 | 2.538  |       |        |       |        |      |
| STA AV   | P | 1.07              | 1.11  | 2.05   | 2.89  | 3.89  | 3.05  | 2.63                                      | 2.49  | 4.57    | 2.89  | 1.94     | 0.91  | 29.49  |       |        |       |        |      |
|  | Q | 0.093             | 0.090 | 0.166  | 0.184 | 0.245   | 0.247 | 0.185                                     | 0.071 | 0.125   | 0.142 | 0.128    | 0.095 | 1.769  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |   |       |   |       |         |       |          |       |        |       |        |       |        |      |
|  |   | Maximum Discharge |       | 1 Hour |       | 2 Hours   |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|  |   | Date              | Rate  | Date   | Vol.  | Date  | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974   |   | 4-30              | 0.012 | 4-30   | 0.012 | 4-30  | 0.023 | 3-10                                      | 0.055 | 4-29    | 0.088 | 4-29     | 0.117 | 4-29   | 0.146 | 4-29   | 0.241 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD  |   |                   |       |        |       |   |       |   |       |         |       |          |       |        |       |        |       |        |      |
|  |   | 5-10              | 0.056 | 5-10   | 0.055 | 5-10  | 0.108 | 7-23                                      | 0.261 | 7-23    | 0.438 | 7-22     | 0.529 | 7-22   | 0.595 | 7-21   | 0.796 |        |      |
|  |   | 1964              |       | 1964   |       | 1964  |       | 1973                                      |       | 1973    |       | 1973     |       | 1973   |       | 1973   |       |        |      |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 15%; row crop - 2%; alfalfa - 1%; pasture and range - 66%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164; p. 69.15-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation Data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.83 | 0.0  | 0.0  | 0.87 | 0.01 | 0.0  | 0.0  | 0.0  |   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.16 | 0.0  |   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  |   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.05 |   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.86 | 0.0  | 0.11 | 0.0  | 0.23 | 0.0  | 0.07 |   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.05 | 0.03 | 0.0  |   |  |
| 8                                 | 0.0  | 0.0  | 0.83 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 9                                 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 0.0  | 0.0  | 0.33 | 0.0  |   |  |
| 10                                | 0.0  | 0.0  | 1.12 | 0.0  | 0.0  | 0.0  | 0.0  | 1.14 | 0.0  | 0.0  | 0.21 | 0.64 |   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.40 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 |   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.12 | 0.0  | 0.0  |   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  |   |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 1.16 | 0.0  | 0.0  | 0.0  |   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.37 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |   |  |
| 18                                | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 19                                | 0.02 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |   |  |
| 20                                | 0.0  | 1.01 | 0.32 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.37 | 0.0  | 0.0  | 0.0  |   |  |
| 21                                | 0.0  | 0.59 | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 22                                | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.03 | 1.65 | 1.14 | 0.0  | 0.0  |   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.74 | 0.0  | 0.0  | 0.0  | 0.15 | 0.16 | 0.0  | 0.0  |   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |
| 27                                | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  | 0.68 | 0.0  | 0.0  |   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.00 | 0.0  | 0.0  |   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.16 | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  |   |  |
| 30                                | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.40 | 0.0  | 0.16 |   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.64 | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.22 |   |  |
| TOTAL                             | 0.14 | 1.69 | 2.28 | 3.71 | 3.69 | 2.92 | 0.33 | 5.67 | 3.95 | 4.67 | 1.31 | 1.33 |   |  |
| STA AV                            | 1.07 | 1.11 | 2.05 | 2.89 | 3.89 | 3.05 | 2.63 | 2.49 | 4.57 | 2.89 | 1.94 | 0.91 |   |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

| 1974   | MEAN DAILY DISCHARGE (cfs) |        |        |        |        | CHICKASHA, OKLAHOMA |       |        |        |        | WATERSHED 522 NEAR MINNEKAH |        |  |
|--------|----------------------------|--------|--------|--------|--------|---------------------|-------|--------|--------|--------|-----------------------------|--------|--|
| Day    | Jan                        | Feb    | Mar    | Apr    | May    | Jun                 | Jul   | Aug    | Sep    | Oct    | Nov                         | Dec    |  |
| 1      | 30.50                      | 25.60  | 30.79  | 34.50  | 177.65 | 46.93               | 10.81 | 5.19   | 10.38  | 13.23  | 66.06                       | 24.20  |  |
| 2      | 29.81                      | 25.51  | 32.10  | 34.00  | 250.99 | 36.85               | 10.21 | 33.29  | 10.75  | 13.10  | 52.90                       | 24.20  |  |
| 3      | 29.19                      | 24.99  | 33.61  | 36.01  | 80.31  | 38.85               | 9.96  | 8.99   | 11.38  | 13.10  | 92.34                       | 24.20  |  |
| 4      | 29.10                      | 24.99  | 35.31  | 37.98  | 54.77  | 34.55               | 10.76 | 6.40   | 10.75  | 13.04  | 71.14                       | 24.29  |  |
| 5      | 29.10                      | 25.69  | 37.39  | 36.91  | 44.65  | 30.38               | 11.80 | 6.48   | 10.26  | 12.66  | 38.75                       | 25.07  |  |
| 6      | 29.10                      | 26.82  | 37.29  | 35.80  | 42.19  | 77.85               | 11.01 | 9.56   | 10.20  | 12.99  | 37.59                       | 26.91  |  |
| 7      | 29.29                      | 26.91  | 33.31  | 34.10  | 38.32  | 125.86              | 9.45  | 9.19   | 10.15  | 15.31  | 36.81                       | 28.05  |  |
| 8      | 30.31                      | 26.56  | 44.75  | 35.20  | 37.49  | 53.75               | 8.26  | 7.04   | 9.80   | 15.50  | 36.51                       | 26.91  |  |
| 9      | 29.73                      | 27.61  | 181.56 | 36.71  | 36.01  | 30.63               | 8.10  | 15.03  | 9.50   | 14.30  | 40.11                       | 25.60  |  |
| 10     | 28.57                      | 28.31  | 337.83 | 36.56  | 34.50  | 26.21               | 8.00  | 343.24 | 9.91   | 14.10  | 47.07                       | 30.20  |  |
| 11     | 28.40                      | 28.76  | 340.65 | 206.55 | 33.51  | 26.21               | 7.35  | 55.16  | 10.89  | 14.04  | 43.07                       | 43.84  |  |
| 12     | 28.68                      | 31.32  | 95.39  | 69.74  | 32.29  | 26.30               | 6.95  | 20.61  | 10.75  | 13.66  | 39.52                       | 43.88  |  |
| 13     | 31.41                      | 33.73  | 76.36  | 41.26  | 32.20  | 26.39               | 6.95  | 16.81  | 10.64  | 13.80  | 37.69                       | 38.04  |  |
| 14     | 37.60                      | 32.57  | 66.80  | 34.00  | 32.99  | 26.56               | 7.16  | 14.63  | 10.38  | 15.35  | 36.01                       | 34.02  |  |
| 15     | 34.91                      | 33.32  | 63.61  | 34.11  | 34.02  | 24.30               | 6.69  | 12.55  | 13.71  | 17.36  | 34.41                       | 32.89  |  |
| 16     | 33.41                      | 32.79  | 58.71  | 33.70  | 32.99  | 22.15               | 6.64  | 10.40  | 29.89  | 15.85  | 33.18                       | 31.65  |  |
| 17     | 31.69                      | 31.41  | 52.93  | 33.51  | 31.91  | 396.51              | 6.86  | 9.44   | 30.18  | 14.55  | 33.51                       | 28.34  |  |
| 18     | 31.90                      | 30.77  | 47.35  | 33.07  | 30.09  | 82.18               | 6.95  | 8.81   | 25.36  | 13.23  | 33.41                       | 28.31  |  |
| 19     | 31.40                      | 30.94  | 43.71  | 33.91  | 29.80  | 31.19               | 7.07  | 7.75   | 23.40  | 12.66  | 31.91                       | 28.40  |  |
| 20     | 30.94                      | 29.93  | 46.68  | 36.40  | 29.99  | 24.05               | 5.88  | 6.96   | 24.91  | 12.60  | 29.56                       | 28.40  |  |
| 21     | 28.76                      | 207.88 | 51.14  | 36.60  | 31.70  | 21.52               | 4.50  | 6.64   | 26.06  | 12.66  | 29.36                       | 28.40  |  |
| 22     | 28.40                      | 75.61  | 46.34  | 35.11  | 34.93  | 19.27               | 4.30  | 6.74   | 22.04  | 13.10  | 27.44                       | 28.31  |  |
| 23     | 28.31                      | 42.85  | 45.06  | 33.09  | 32.69  | 17.99               | 4.30  | 7.88   | 19.94  | 13.79  | 27.61                       | 27.70  |  |
| 24     | 27.88                      | 36.43  | 42.61  | 32.01  | 32.98  | 16.88               | 4.34  | 9.68   | 32.35  | 32.49  | 27.52                       | 27.09  |  |
| 25     | 28.49                      | 34.31  | 39.84  | 30.79  | 440.07 | 16.21               | 4.56  | 8.66   | 72.17  | 39.69  | 26.39                       | 27.00  |  |
| 26     | 29.63                      | 32.39  | 40.09  | 30.69  | 256.52 | 15.70               | 4.52  | 8.48   | 27.68  | 31.40  | 25.60                       | 27.26  |  |
| 27     | 29.71                      | 31.91  | 39.77  | 31.21  | 85.27  | 15.06               | 4.07  | 23.61  | 22.49  | 29.46  | 24.90                       | 28.93  |  |
| 28     | 28.93                      | 30.79  | 37.34  | 31.13  | 50.76  | 13.68               | 4.00  | 17.80  | 19.65  | 135.89 | 24.29                       | 29.71  |  |
| 29     | 27.09                      |        | 37.48  | 91.26  | 37.81  | 12.66               | 4.04  | 14.64  | 16.82  | 48.76  | 24.20                       | 29.90  |  |
| 30     | 25.77                      |        | 36.81  | 615.71 | 34.00  | 11.99               | 4.30  | 12.29  | 14.31  | 87.80  | 24.20                       | 31.70  |  |
| 31     | 25.60                      |        | 35.90  |        | 66.91  |                     | 4.60  | 11.11  |        | 310.64 |                             | 18.90  |  |
| MEAN   | 29.793                     | 38.240 | 69.306 | 62.720 | 71.623 | 44.955              | 6.917 | 23.710 | 18.889 | 33.422 | 37.769                      | 29.106 |  |
| INCHES | 0.165                      | 0.192  | 0.385  | 0.337  | 0.397  | 0.241               | 0.038 | 0.132  | 0.101  | 0.185  | 0.203                       | 0.161  |  |
| STA AV | 0.093                      | 0.090  | 0.166  | 0.184  | 0.245  | 0.247               | 0.185 | 0.071  | 0.125  | 0.142  | 0.128                       | 0.095  |  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. STA AV based on 12 yr (1963-74) record period.

## CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

LOCATION: East Bitter Creek Watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min. N., long 97 deg. 50 min. W., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                                |       |                     |       |                      | CHICKASHA, OKLAHOMA |   |       |       | WATERSHED 512 AT TABLER |                    |       |                     |       |                     |       |
|---|---|--------------------------------|-------|---------------------|-------|----------------------|---------------------|---|-------|-------|-------------------------|--------------------|-------|---------------------|-------|---------------------|-------|
|   |   | Jan                            | Feb   | Mar                 | Apr   | May                  | Jun                 | Jul   | Aug   | Sep   | Oct                     | Nov                | Dec   | Annual              |       |                     |       |
| 1974  | P | 0.12                           | 1.84  | 1.96                | 4.39  | 2.98                 | 1.11                | 0.97  | 5.23  | 3.75  | 5.30                    | 1.58               | 1.59  | 30.82               |       |                     |       |
|   | Q | 0.251                          | 0.260 | 0.429               | 0.608 | 0.573                | 0.167               | 0.053   | 0.285 | 0.089 | 0.313                   | 0.247              | 0.195 | 3.470               |       |                     |       |
| STA AV  | P | 0.92                           | 1.23  | 1.91                | 2.91  | 3.82                 | 3.22                | 2.23  | 3.29  | 4.29  | 2.88                    | 2.09               | 1.07  | 29.88               |       |                     |       |
|   | Q | 0.130                          | 0.128 | 0.268               | 0.349 | 0.486                | 0.418               | 0.101   | 0.177 | 0.212 | 0.220                   | 0.219              | 0.134 | 2.841               |       |                     |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                                |       |                     |       |                      |                     |   |       |       |                         |                    |       |                     |       |                     |       |
|   |   | Maximum Discharge<br>Date Rate |       | 1 Hour<br>Date Vol. |       | 2 Hours<br>Date Vol. |                     | Maximum Volume for Selected Time Interval<br>6 Hours Date Vol. 12 Hours Date Vol. |       |       |                         | 1 Day<br>Date Vol. |       | 2 Days<br>Date Vol. |       | 8 Days<br>Date Vol. |       |
| 1974  |   | 4-30                           | 0.058 | 4-30                | 0.055 | 4-30                 | 0.102               | 4-29  | 0.218 | 4-29  | 0.272                   | 4-29               | 0.308 | 4-29                | 0.423 | 4-29                | 0.636 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                                |       |                     |       |                      |                     |   |       |       |                         |                    |       |                     |       |                     |       |
|   |   | 5-24                           | 0.203 | 5-24                | 0.200 | 5-24                 | 0.392               | 5-24  | 0.888 | 5-24  | 1.013                   | 5-24               | 1.090 | 5-24                | 1.147 | 5-31                | 2.221 |
|   |   | 1973                           |       | 1973                |       | 1973                 |                     | 1973  |       | 1973  |                         | 1973               |       | 1973                |       | 1973                |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 7%; row crop - 1%; alfalfa - 2%; pasture and range - 82% miscellaneous - 8%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1965, USDA Misc. Pub. 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Aug. 1963. STA AV (P) values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-74 on the watershed. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.20 | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.22 | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.59 | 0.0  | 0.04 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.09 | 0.04 | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.10 | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 1.77 | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0  | 0.0  | 1.19 | 0.0  | 0.0  | 0.0  | 0.0  | 2.17 | 0.0  | 0.0  | 0.25 | 0.83 | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.40 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.09 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.06 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.85 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.36 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0  | 0.80 | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0  | 0.70 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 1.23 | 0.94 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.09 | 0.0  | 0.0  | 0.0  | 0.17 | 0.43 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.62 | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 | 0.0  | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.91 | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 0.0  | 0.18 | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.23 | 0.0  | 0.0  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             | 0.12 | 1.84 | 1.96 | 4.39 | 2.98 | 1.11 | 0.97 | 5.23 | 3.75 | 5.30 | 1.58 | 1.59 |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            | 0.92 | 1.23 | 1.91 | 2.91 | 3.82 | 3.22 | 2.23 | 3.29 | 4.29 | 2.88 | 2.09 | 1.07 |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. STA AV values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-74 on the watershed. STA AV based on 14 yr for total period of record (1961-74).

| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSRED 512 AT TABLER |       |       |        |        |        |       |       |        |       |        |       |       |
|---|-------|-------|--------|--------|--------|-------|-------|--------|-------|--------|-------|-------|
| Day   | Jan   | Feb   | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov   | Dec   |
| 1   | 7.10  | 6.98  | 7.66   | 8.10   | 127.55 | 7.76  | 2.51  | 2.52   | 1.26  | 2.32   | 14.17 | 5.36  |
| 2   | 7.10  | 7.37  | 7.81   | 7.72   | 86.96  | 6.73  | 3.02  | 1.72   | 2.30  | 2.31   | 14.25 | 5.34  |
| 3   | 7.10  | 7.10  | 7.52   | 7.52   | 27.08  | 6.86  | 2.41  | 1.28   | 2.72  | 2.30   | 27.44 | 5.34  |
| 4   | 7.10  | 6.74  | 7.29   | 7.49   | 20.17  | 6.84  | 3.01  | 1.19   | 2.43  | 2.22   | 15.73 | 5.34  |
| 5   | 7.10  | 6.56  | 7.17   | 7.47   | 17.09  | 6.26  | 2.89  | 1.12   | 2.15  | 2.12   | 9.40  | 5.40  |
| 6   | 7.05  | 6.54  | 7.42   | 7.31   | 15.49  | 10.06 | 2.43  | 1.22   | 2.05  | 1.99   | 8.01  | 5.73  |
| 7   | 6.86  | 6.54  | 7.34   | 7.29   | 14.91  | 15.61 | 2.06  | 1.34   | 2.04  | 2.14   | 7.29  | 5.48  |
| 8   | 7.35  | 6.56  | 7.89   | 7.31   | 13.91  | 6.94  | 1.80  | 1.04   | 2.04  | 2.38   | 6.84  | 5.07  |
| 9   | 7.10  | 6.70  | 12.23  | 7.47   | 13.15  | 6.04  | 1.65  | 13.63  | 2.04  | 2.41   | 7.43  | 5.05  |
| 10  | 6.72  | 6.72  | 84.76  | 7.54   | 12.02  | 5.42  | 1.60  | 192.29 | 2.03  | 2.41   | 9.48  | 6.86  |
| 11  | 6.50  | 6.72  | 39.38  | 48.29  | 11.52  | 5.30  | 1.45  | 11.33  | 1.94  | 2.42   | 8.13  | 11.56 |
| 12  | 7.24  | 6.72  | 14.88  | 14.69  | 10.67  | 5.07  | 1.47  | 4.69   | 1.81  | 2.54   | 6.58  | 8.90  |
| 13  | 8.73  | 6.72  | 12.57  | 10.61  | 10.11  | 5.05  | 1.49  | 3.41   | 1.79  | 2.79   | 6.30  | 7.23  |
| 14  | 8.96  | 6.72  | 11.65  | 9.08   | 9.61   | 5.12  | 1.55  | 2.68   | 1.82  | 2.95   | 5.88  | 6.72  |
| 15  | 8.96  | 6.72  | 11.07  | 8.57   | 8.99   | 4.84  | 1.57  | 2.39   | 2.64  | 3.18   | 5.69  | 6.36  |
| 16  | 8.99  | 6.70  | 10.39  | 8.47   | 8.50   | 4.44  | 1.60  | 2.06   | 7.07  | 2.96   | 5.67  | 6.01  |
| 17  | 9.18  | 6.66  | 9.94   | 8.13   | 7.94   | 4.80  | 1.48  | 1.81   | 3.43  | 2.92   | 5.67  | 5.73  |
| 18  | 9.32  | 7.15  | 9.85   | 7.94   | 7.66   | 4.76  | 1.35  | 1.71   | 2.88  | 2.92   | 5.67  | 5.82  |
| 19  | 8.96  | 6.87  | 9.76   | 8.07   | 7.32   | 4.09  | 1.29  | 1.63   | 2.82  | 2.92   | 5.63  | 5.84  |
| 20  | 8.52  | 6.65  | 10.59  | 8.13   | 7.15   | 3.76  | 1.26  | 1.55   | 2.83  | 2.91   | 5.38  | 5.84  |
| 21  | 8.13  | 49.91 | 12.47  | 8.26   | 7.29   | 3.54  | 1.16  | 1.42   | 2.88  | 2.82   | 5.36  | 5.84  |
| 22  | 7.89  | 13.15 | 11.79  | 8.07   | 7.37   | 3.51  | 1.08  | 1.34   | 2.70  | 2.72   | 5.48  | 5.82  |
| 23  | 7.69  | 9.77  | 11.46  | 7.69   | 6.82   | 3.49  | 0.98  | 1.35   | 2.45  | 2.69   | 5.44  | 5.67  |
| 24  | 7.52  | 8.25  | 10.42  | 7.34   | 6.81   | 3.40  | 0.88  | 1.75   | 5.59  | 4.52   | 5.09  | 5.50  |
| 25  | 7.47  | 7.54  | 9.64   | 7.29   | 23.18  | 3.38  | 0.86  | 2.00   | 7.08  | 7.41   | 5.05  | 5.36  |
| 26  | 7.31  | 7.31  | 9.05   | 7.31   | 11.91  | 3.37  | 0.82  | 2.49   | 3.61  | 5.47   | 5.16  | 5.34  |
| 27  | 7.27  | 7.29  | 8.96   | 7.47   | 9.02   | 3.26  | 0.76  | 2.74   | 2.76  | 4.47   | 5.18  | 5.34  |
| 28  | 7.12  | 7.34  | 8.96   | 7.39   | 8.13   | 3.04  | 0.67  | 1.98   | 2.52  | 29.73  | 5.20  | 5.36  |
| 29  | 7.08  |       | 8.90   | 43.01  | 7.54   | 2.81  | 2.19  | 1.69   | 2.42  | 6.81   | 5.34  | 5.52  |
| 30  | 6.93  |       | 8.57   | 264.82 | 7.58   | 2.55  | 1.96  | 1.41   | 2.40  | 100.89 | 5.46  | 6.03  |
| 31  | 6.91  |       | 8.47   |        | 8.93   |       | 1.23  | 1.13   |       | 77.99  |       | 3.61  |
| MEAN  | 7.653 | 8.786 | 13.093 | 19.195 | 17.497 | 5.270 | 1.629 | 8.707  | 2.816 | 9.569  | 7.780 | 5.948 |
| INCRS   | 0.251 | 0.260 | 0.429  | 0.608  | 0.573  | 0.167 | 0.053 | 0.285  | 0.089 | 0.313  | 0.247 | 0.195 |
| STA AV  | 0.130 | 0.128 | 0.268  | 0.349  | 0.486  | 0.418 | 0.101 | 0.177  | 0.212 | 0.220  | 0.219 | 0.134 |

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1,878. STA AV based on 12 yr (1963-74) record period.

| 1974                         | SELECTED RUNOFF EVENT |          |           | CRICKASRA, OKLAHOMA |           |          | WATERSRED 512 AT TABLER |        |         |          |
|------------------------------|-----------------------|----------|-----------|---------------------|-----------|----------|-------------------------|--------|---------|----------|
| ANTECEDENT CONDITIONS        |                       |          | RAINFALL  |                     |           | RUNOFF   |                         |        |         |          |
| Date                         | Rainfall              | Runoff   | Date      | Time                | Intensity | Acc.     | Date                    | Time   | Rate    | Acc.     |
| Mo-Day                       | (inches)              | (inches) | Mo-Day    | of Day              | (in/hr)   | (inches) | Mo-Day                  | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 9 - 13, 1974 |                       |          |           |                     |           |          |                         |        |         |          |
| RG 000090                    |                       |          | RG 000090 |                     |           |          |                         |        |         |          |
| 8- 9                         | 0.0                   | 0.001    | 8- 9      | 2100                | 0.0       | 0.0      | 8- 9                    | 2106   | 0.820   | 0.0      |
|                              |                       |          |           | 2101                | 1.2000    | 0.02     |                         | 2123   | 6.180   | 0.0000   |
|                              |                       |          |           | 2102                | 1.2000    | 0.04     |                         | 2130   | 18.300  | 0.0001   |
|                              |                       |          |           | 2104                | 0.3000    | 0.05     |                         | 2153   | 40.170  | 0.0006   |
|                              |                       |          |           | 2107                | 0.0       | 0.05     |                         | 2200   | 70.490  | 0.0009   |
| WATERSRED CONDITIONS:        |                       |          |           | 2111                | 0.1500    | 0.06     |                         | 2206   | 105.830 | 0.0013   |
| From a revised 1974 survey;  |                       |          |           | 2114                | 0.2000    | 0.07     |                         | 2230   | 154.610 | 0.0035   |
| sowed crop - 7%; row crop    |                       |          |           | 2116                | 0.0       | 0.07     |                         | 2241   | 154.610 | 0.0048   |
| 1%; alfalfa - 2%; pasture    |                       |          |           | 2119                | 0.2000    | 0.08     |                         | 2311   | 140.370 | 0.0080   |
| and range - 82%; and mis-    |                       |          |           | 2122                | 1.4000    | 0.15     |                         | 2341   | 161.370 | 0.0114   |
| cellaneous - 8%.             |                       |          |           | 2123                | 1.7988    | 0.18     |                         | 2400   | 158.640 | 0.0136   |
|                              |                       |          |           | 2124                | 3.6000    | 0.24     | 8-10                    | 100    | 120.040 | 0.0197   |
|                              |                       |          |           | 2125                | 1.2000    | 0.26     |                         | 200    | 79.800  | 0.0241   |
|                              |                       |          |           | 2126                | 2.4000    | 0.30     |                         | 300    | 58.220  | 0.0272   |
|                              |                       |          |           | 2128                | 5.6988    | 0.49     |                         | 430    | 71.310  | 0.0314   |
|                              |                       |          |           | 2129                | 11.4028   | 0.68     |                         | 530    | 96.640  | 0.0351   |
|                              |                       |          |           | 2130                | 2.3984    | 0.72     |                         | 611    | 153.280 | 0.0389   |
|                              |                       |          |           | 2131                | 6.0015    | 0.82     |                         | 636    | 227.260 | 0.0424   |
|                              |                       |          |           | 2132                | 3.6000    | 0.88     |                         | 700    | 318.350 | 0.0472   |
|                              |                       |          |           | 2134                | 1.8000    | 0.94     |                         | 730    | 424.510 | 0.0554   |
|                              |                       |          |           | 2138                | 1.5000    | 1.04     |                         | 741    | 530.050 | 0.0592   |
|                              |                       |          |           | 2140                | 0.9000    | 1.07     |                         | 753    | 654.060 | 0.0644   |
|                              |                       |          |           | 2141                | 1.7988    | 1.10     |                         | 811    | 780.050 | 0.0739   |
|                              |                       |          |           | 2143                | 1.2000    | 1.14     |                         | 841    | 934.070 | 0.0928   |
|                              |                       |          |           | 2151                | 1.5000    | 1.34     |                         | 900    | 918.820 | 0.1057   |
|                              |                       |          |           | 2152                | 3.6000    | 1.40     |                         | 930    | 783.750 | 0.1244   |
|                              |                       |          |           | 2153                | 2.3984    | 1.44     |                         | 1000   | 615.128 | 0.1398   |
|                              |                       |          |           | 2154                | 4.2011    | 1.51     |                         | 1030   | 463.360 | 0.1517   |
|                              |                       |          |           | 2156                | 1.2000    | 1.55     |                         | 1100   | 359.878 | 0.1607   |
|                              |                       |          |           | 2157                | 2.4000    | 1.59     |                         | 1130   | 299.790 | 0.1680   |

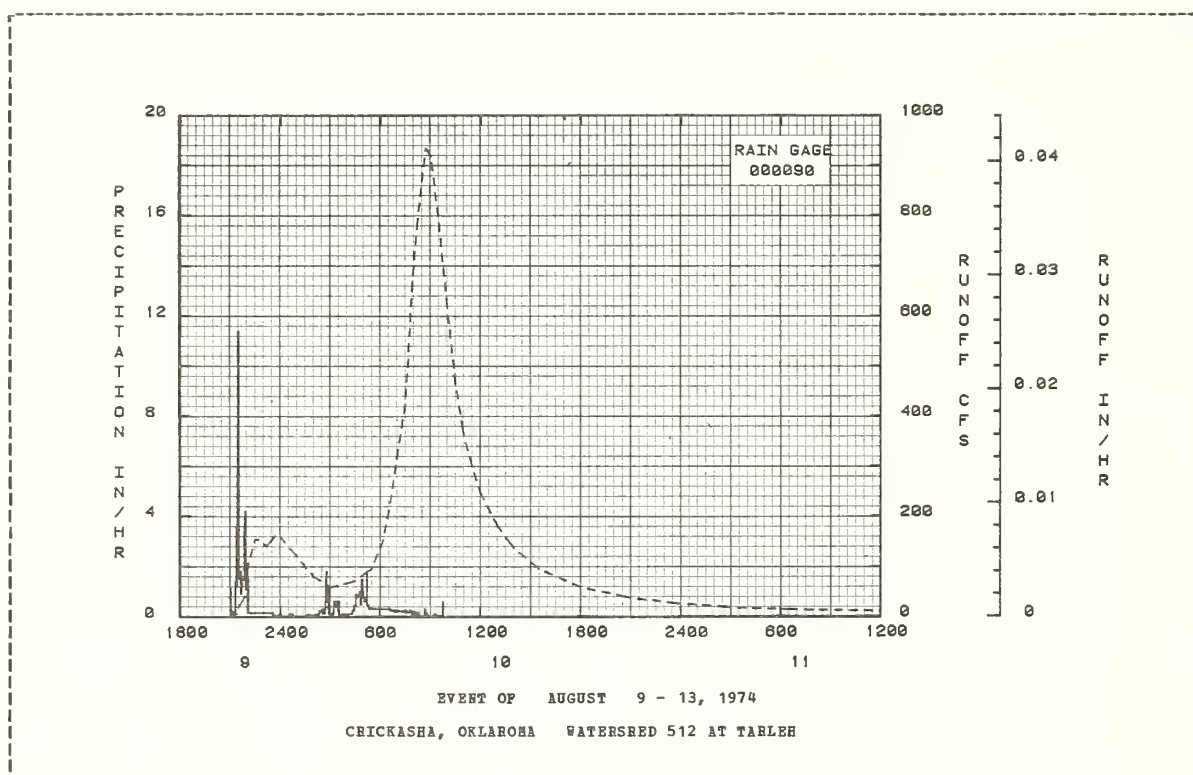
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00004402.



NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402.

| 1974 SELECTED RUNOFF EVENT               |          |          | CHICKASAW, OKLAHOMA WATERSHED 512 AT TABLE |        |           |          |        |          |
|--|----------|----------|--|--------|-----------|----------|--------|----------|
| ANTECEDENT CONDITIONS                    |          |          | RAINFALL                                   |        |           | RUNOFF   |        |          |
| Date                                     | Rainfall | Runoff   | Date                                       | Time   | Intensity | Acc.     | Date   | Time     |
| Mo-Day                                   | (inches) | (inches) | Mo-Day                                     | of Day | (in/hr)   | (inches) | Mo-Day | of Day   |
|  |          |          |  |        |           |          | Rate   | Acc.     |
|  |          |          |  |        |           |          | (cfs)  | (inches) |
| EVENT OF AUGUST 9 - 13, 1974 (CONTINUED) |          |          |  |        |           |          |        |          |
| 8-10                                     |          |          | 913  |        | 0.0       | 3.99     |        |          |
|  |          |          | 921  |        | 0.0750    | 4.00     |        |          |
|  |          |          | 945  |        | 0.0       | 4.00     |        |          |
|  |          |          | 946  |        | 0.6000    | 4.01     |        |          |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402.



CRICKASRA, OKLAHOMA WATERSHED 621 NEAR TABLER

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--W-1/4 sec. 18, T. 6 N., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |                  |       |                   |       | CRICKASRA, OKLAHOMA   |       |                    |       |                 |       |                  | WATERSHED 621 NEAR TABLER |                  |      |       |
|---|---|------------------------|------------------|-------|-------------------|-------|---|-------|--------------------|-------|-----------------|-------|------------------|---------------------------|------------------|------|-------|
|   |   | Jan                    | Feb              | Mar   | Apr               | May   | Jun   | Jul   | Aug                | Sep   | Oct             | Nov   | Dec              | Annual                    |                  |      |       |
| 1974  | P | 0.18                   | 1.61             | 1.33  | 4.01              | 3.44  | 1.05  | 0.89  | 4.69               | 4.17  | 5.15            | 1.49  | 1.44             | 29.45                     |                  |      |       |
|   | Q | 0.289                  | 0.294            | 0.322 | 0.499             | 0.722 | 0.186   | 0.054 | 0.192              | 0.122 | 0.400           | 0.468 | 0.325            | 3.873                     |                  |      |       |
| STA AV  | P | 1.08                   | 1.20             | 1.70  | 2.88              | 4.05  | 2.94  | 2.22  | 2.89               | 4.50  | 2.89            | 2.09  | 1.12             | 29.59                     |                  |      |       |
|   | Q | 0.173                  | 0.174            | 0.239 | 0.302             | 0.584 | 0.331   | 0.128 | 0.126              | 0.299 | 0.276           | 0.324 | 0.207            | 3.163                     |                  |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |                  |       |                   |       |   |       |                    |       |                 |       |                  |                           |                  |      |       |
|   |   | Maximum Discharge Date | 1 Hour Date Vol. |       | 2 Hours Date Vol. |       | Maximum Volume for Selected Time Interval 6 Hours Date Vol. |       | 12 Hours Date Vol. |       | 1 Day Date Vol. |       | 2 Days Date Vol. |                           | 8 Days Date Vol. |      |       |
| 1974  |   | 4-29                   | 0.042            | 4-29  | 0.039             | 4-29  | 0.071   | 4-29  | 0.148              | 4-29  | 0.200           | 4-29  | 0.257            | 4-29                      | 0.358            | 4-29 | 0.641 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |                  |       |                   |       |   |       |                    |       |                 |       |                  |                           |                  |      |       |
|   |   | 5-10                   | 0.207            | 5-24  | 0.188             | 5-24  | 0.322   | 5-24  | 0.486              | 9-22  | 0.649           | 9-22  | 0.791            | 9-22                      | 0.957            | 5-24 | 1.603 |
|   |   | 1964                   |                  | 1973  |                   | 1973  |   | 1973  |                    | 1970  |                 | 1970  |                  | 1970                      |                  | 1973 |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 9%; row crop - 1%; alfalfa - 1%; pasture and range - 82% and miscellaneous - 7%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |     |      |      |      |      |      |      |      |      |      |      |      | CRICKASRA, OKLAHOMA WATERSHED 621 NEAR TABLER |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|---|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec   |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 |     | 0.01 | 0.0  | 0.0  | 0.0  | 0.84 | 0.0  | 0.0  | 0.37 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.81 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.03 | 0.0  | 0.0  | 0.82 | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.42 | 0.0  | 0.02 | 0.0  | 0.08 | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.08 | 0.05 | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 |     | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 |     | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.77 | 0.0  | 0.0  | 0.31 | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                |     | 0.0  | 0.0  | 0.98 | 0.01 | 0.0  | 0.0  | 0.0  | 1.56 | 0.0  | 0.0  | 0.26 | 0.78  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                |     | 0.0  | 0.0  | 0.0  | 1.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.05 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.13 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                |     | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.02 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.34 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                |     | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                |     | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                |     | 0.0  | 0.70 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                |     | 0.0  | 0.65 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.33 | 0.84 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 1.82 | 0.0  | 0.0  | 0.17 | 0.42 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.10 | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 | 0.0  | 0.05 | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.0  | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                |     | 0.0  | 0.0  | 0.0  | 2.76 | 0.0  | 0.0  | 0.54 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                |     | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 2.27 | 0.0  | 0.13 | 0.13  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                |     | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.26 | 0.26 | 0.26  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |     | 0.18 | 1.61 | 1.33 | 4.01 | 3.44 | 1.05 | 0.89 | 4.69 | 4.17 | 5.15 | 1.49 | 1.44  |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |     | 1.08 | 1.20 | 1.70 | 2.88 | 4.05 | 2.94 | 2.22 | 2.89 | 4.50 | 2.89 | 2.09 | 1.12  |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASBA, OKLAHOMA WATERSHED 621 NEAR TABLEE |       |       |       |        |        |       |       |       |       |        |        |       |
|---|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|--------|-------|
| Day   | Jan   | Feb   | Mar   | Apr    | May    | Jun   | Jul   | Aug   | Sep   | Oct    | Nov    | Dec   |
| 1   | 7.52  | 8.34  | 8.45  | 6.54   | 94.30  | 10.20 | 2.23  | 3.12  | 2.10  | 3.23   | 55.28  | 6.83  |
| 2   | 7.13  | 8.20  | 8.41  | 6.23   | 84.20  | 8.87  | 2.12  | 2.73  | 5.78  | 3.09   | 36.94  | 6.80  |
| 3   | 7.06  | 8.16  | 8.20  | 5.64   | 55.59  | 8.56  | 2.28  | 1.84  | 3.23  | 2.93   | 42.49  | 6.80  |
| 4   | 7.16  | 8.16  | 8.12  | 5.39   | 40.48  | 8.86  | 3.28  | 1.83  | 2.52  | 2.78   | 30.98  | 6.80  |
| 5   | 7.67  | 8.16  | 7.84  | 5.36   | 30.65  | 8.27  | 2.72  | 1.78  | 2.12  | 2.66   | 20.84  | 6.86  |
| 6   | 7.26  | 8.09  | 7.39  | 5.33   | 21.32  | 8.43  | 2.36  | 1.79  | 1.86  | 2.76   | 16.69  | 7.26  |
| 7   | 8.03  | 7.66  | 7.32  | 5.17   | 15.31  | 10.02 | 2.10  | 1.42  | 1.68  | 3.46   | 14.16  | 7.29  |
| 8   | 9.37  | 7.59  | 7.35  | 5.14   | 12.93  | 9.81  | 1.88  | 0.94  | 1.71  | 3.56   | 12.97  | 7.00  |
| 9   | 7.43  | 7.59  | 7.56  | 5.17   | 11.76  | 8.22  | 1.75  | 9.88  | 1.52  | 3.41   | 13.02  | 6.62  |
| 10  | 7.06  | 7.59  | 23.02 | 5.45   | 10.93  | 6.91  | 1.63  | 55.42 | 1.26  | 3.25   | 13.91  | 8.56  |
| 11  | 7.06  | 7.59  | 19.00 | 21.32  | 9.66   | 6.30  | 1.47  | 17.95 | 1.07  | 3.11   | 12.24  | 12.30 |
| 12  | 7.23  | 7.59  | 13.56 | 12.38  | 8.39   | 5.85  | 1.51  | 12.78 | 0.96  | 3.11   | 11.02  | 11.16 |
| 13  | 8.43  | 7.59  | 11.46 | 10.36  | 8.38   | 5.56  | 1.43  | 9.70  | 1.22  | 3.32   | 10.01  | 10.05 |
| 14  | 9.53  | 7.59  | 10.34 | 8.61   | 8.16   | 5.14  | 1.34  | 7.15  | 1.82  | 3.85   | 9.09   | 9.36  |
| 15  | 9.64  | 7.59  | 9.40  | 7.87   | 7.81   | 4.72  | 1.25  | 5.25  | 2.79  | 3.92   | 8.45   | 8.75  |
| 16  | 9.40  | 7.59  | 8.79  | 7.32   | 7.06   | 4.45  | 1.23  | 4.17  | 6.11  | 3.76   | 7.91   | 8.20  |
| 17  | 9.36  | 7.77  | 8.49  | 6.83   | 6.33   | 4.80  | 1.16  | 3.42  | 4.59  | 3.58   | 7.63   | 7.94  |
| 18  | 9.40  | 8.83  | 8.38  | 6.57   | 5.85   | 4.50  | 1.07  | 2.77  | 3.85  | 3.41   | 7.59   | 8.35  |
| 19  | 9.64  | 8.64  | 8.09  | 6.60   | 5.56   | 3.99  | 0.99  | 2.10  | 4.02  | 3.27   | 7.59   | 10.22 |
| 20  | 9.64  | 8.22  | 8.98  | 6.99   | 5.22   | 3.74  | 0.94  | 1.48  | 4.62  | 3.23   | 7.59   | 13.35 |
| 21  | 9.40  | 31.31 | 9.48  | 7.03   | 5.33   | 3.48  | 1.01  | 1.19  | 4.56  | 3.11   | 7.59   | 15.08 |
| 22  | 9.32  | 15.32 | 8.83  | 6.77   | 5.36   | 3.54  | 0.75  | 1.16  | 3.55  | 3.07   | 7.59   | 15.55 |
| 23  | 9.09  | 12.57 | 8.38  | 6.30   | 5.39   | 3.39  | 0.67  | 1.18  | 3.27  | 3.23   | 7.59   | 15.28 |
| 24  | 9.01  | 10.76 | 7.70  | 5.85   | 5.55   | 3.09  | 0.66  | 1.32  | 8.30  | 5.35   | 7.52   | 15.23 |
| 25  | 8.75  | 9.69  | 7.63  | 5.61   | 72.34  | 2.84  | 0.65  | 1.35  | 11.41 | 8.45   | 7.13   | 14.79 |
| 26  | 8.45  | 8.79  | 7.84  | 5.61   | 37.02  | 2.97  | 0.62  | 1.65  | 6.87  | 8.07   | 7.06   | 11.57 |
| 27  | 8.16  | 8.27  | 7.91  | 5.79   | 19.90  | 3.23  | 0.61  | 5.81  | 5.38  | 6.68   | 7.06   | 7.64  |
| 28  | 7.91  | 8.41  | 8.12  | 5.76   | 13.62  | 2.57  | 0.57  | 3.41  | 4.38  | 19.30  | 7.06   | 7.06  |
| 29  | 7.87  |       | 8.02  | 55.37  | 10.45  | 2.28  | 2.80  | 2.80  | 3.77  | 10.19  | 7.06   | 7.03  |
| 30  | 7.87  |       | 7.16  | 191.98 | 9.23   | 2.33  | 3.44  | 2.51  | 3.31  | 130.27 | 7.03   | 7.04  |
| 31  | 7.94  |       | 6.80  |        | 11.92  |       | 1.52  | 2.34  |       | 94.55  |        | 4.02  |
| MEAN  | 8.348 | 9.417 | 9.291 | 14.878 | 20.838 | 5.564 | 1.549 | 5.557 | 3.654 | 11.547 | 13.969 | 9.380 |
| INCHES  | 0.289 | 0.294 | 0.322 | 0.499  | 0.722  | 0.186 | 0.054 | 0.192 | 0.122 | 0.400  | 0.468  | 0.325 |
| STA AV  | 0.173 | 0.174 | 0.239 | 0.302  | 0.584  | 0.331 | 0.128 | 0.126 | 0.299 | 0.276  | 0.324  | 0.207 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. STA AV based on 12 yr (1963-74) record period.



CHICKASHA, OKLAHOMA WATSESEED 121 AT GRACEMONT

LOCATION: Sugar Creek Watershed above Gracemont in Caddo County, Okla.; tributary to Washita River; Red River Basin.  
GAGING STATION--SE1/4 sec. 9, T. 8N., E. 10 W., lat. 35 deg. 10 min. 30 sec. N., long. 98 deg. 15 min. 30 sec. W.,  
one mile south of Gracemont, Okla., on downstream side of county road bridge.

AREA: 131780.00 acres 205.90 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASHA, OKLAHOMA |       |   |       | WATSESEED 121 AT GRACEMONT |       |       |       |        |       |      |       |
|---|---|-------------------|-------|--------|-------|---------------------|-------|---|-------|----------------------------|-------|-------|-------|--------|-------|------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                 | Jun   | Jul                                       | Aug   | Sep                        | Oct   | Nov   | Dec   | Annual |       |      |       |
| 1974  | P | 0.18              | 2.14  | 1.92   | 2.75  | 4.89                | 2.05  | 1.41                                      | 5.51  | 3.74                       | 3.65  | 3.13  | 1.31  | 32.68  |       |      |       |
|   | Q | 0.058             | 0.154 | 0.147  | 0.078 | 0.242               | 0.111 | 0.003                                     | 0.093 | 0.034                      |       |       |       |        |       |      |       |
| STA AV  | P | 0.74              | 0.91  | 1.74   | 2.48  | 3.73                | 3.43  | 1.89                                      | 2.77  | 4.95                       | 2.06  | 1.66  | 1.07  | 27.43  |       |      |       |
|   | Q | 0.047             | 0.229 | 0.105  | 0.123 | 0.198               | 0.111 | 0.015                                     | 0.029 | 0.167                      | 0.034 | 0.037 | 0.051 | 1.146  |       |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                     |       |   |       |                            |       |       |       |        |       |      |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours             |       | Maximum Volume for Selected Time Interval |       |                            |       |       |       |        |       |      |       |
|   |   | Date              | Date  | Date   | Vol.  | Date                | Vol.  | Date                                      | Vol.  | Date                       | Vol.  | Date  | Vol.  | Date   | Vol.  |      |       |
| 1974  |   | 2-21              | 0.006 | 2-21   | 0.006 | 2-21                | 0.012 | 2-20                                      | 0.033 | 2-20                       | 0.047 | 2-20  | 0.062 | 5- 1   | 0.087 | 4-29 | 0.144 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                     |       |   |       |                            |       |       |       |        |       |      |       |
|   |   | 9-21              | 0.064 | 9-21   | 0.062 | 9-21                | 0.122 | 9-21                                      | 0.318 | 9-21                       | 0.497 | 9-21  | 0.653 | 9-21   | 0.815 | 9-21 | 1.238 |
|   |   | 1965              |       | 1965   |       | 1965                |       | 1965                                      |       | 1965                       |       | 1965  |       | 1965   |       | 1965 |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 11%; row crop - 12%; alfalfa - 3%; pasture and range - 57% and miscellaneous - 17%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). The stream gaging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, OK. Runoff records were discontinued October 1, 1974.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      |      | CHICKASHA, OKLAHOMA WATSESEED 121 AT GRACEMONT |      |      |      |      |      |      |      |
|--------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |      |
| 1      | 0.02                         | 0.0  | 0.0  | 0.0  | 1.69 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 1.91 | 0.0  | 0.0  | 0.0  |
| 3      | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.53 | 0.04   | 0.08 | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.39   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.04 | 0.0  |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |
| 8      | 0.0                          | 0.0  | 0.21 | 0.0  | 0.0  | 0.89 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9      | 0.10                         | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 2.12 | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  |
| 10     | 0.0                          | 0.0  | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 1.20 | 0.0  | 0.0  | 0.03 | 0.59 | 0.0  | 0.0  |
| 11     | 0.0                          | 0.0  | 0.0  | 0.93 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.0  | 0.0  |
| 14     | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  |
| 15     | 0.0                          | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.43 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18     | 0.0                          | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19     | 0.01                         | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 20     | 0.0                          | 1.54 | 0.30 | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21     | 0.0                          | 0.22 | 0.0  | 0.0  | 1.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.08 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 1.05 | 0.69 | 0.0  | 0.0  | 0.0  | 0.0  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 1.33 | 0.0  | 0.0  | 0.0  | 0.01 | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  |
| 26     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27     | 0.05                         | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 1.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.0  |
| 29     | 0.0                          | 0.0  | 0.0  | 1.40 | 0.0  | 0.0  | 0.98   | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.10 | 0.0  | 0.32 | 0.0  | 0.0  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.09 | 0.0  | 0.0  |
| TOTAL  | 0.18                         | 2.14 | 1.92 | 2.75 | 4.89 | 2.05 | 1.41   | 5.51 | 3.74 | 3.65 | 3.13 | 1.31 |      |      |
| STA AV | 0.74                         | 0.91 | 1.74 | 2.48 | 3.73 | 3.43 | 1.89   | 2.77 | 4.95 | 2.06 | 1.66 | 1.07 |      |      |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 32 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED 121 AT GRACEMONT |        |        |        |        |        |        |       |        |       |       |       |       |
|--|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep   | Oct   | Nov   | Dec   |
| 1  | 8.07   | 10.91  | 17.61  | 10.48  | 228.00 | 14.60  | 0.43  | 0.49   | 6.20  | NR    | NR    | NR    |
| 2  | 5.52   | 10.46  | 16.99  | 9.48   | 210.26 | 12.90  | 0.30  | 0.31   | 6.68  | NR    | NR    | NR    |
| 3  | 5.19   | 10.27  | 16.82  | 8.89   | 116.81 | 18.48  | 0.23  | 0.71   | 5.68  | NR    | NR    | NR    |
| 4  | 5.71   | 9.52   | 16.29  | 7.76   | 75.40  | 16.95  | 0.27  | 0.88   | 3.90  | NR    | NR    | NR    |
| 5  | 5.80   | 9.35   | 15.69  | 7.15   | 49.63  | 14.20  | 0.21  | 1.70   | 3.24  | NR    | NR    | NR    |
| 6  | 5.80   | 9.05   | 15.29  | 8.06   | 34.56  | 11.40  | 0.20  | 1.02   | 3.02  | NR    | NR    | NR    |
| 7  | 5.89   | 8.89   | 13.89  | 8.68   | 26.93  | 11.02  | 0.20  | 0.80   | 2.95  | NR    | NR    | NR    |
| 8  | 6.32   | 8.38   | 17.41  | 7.51   | 22.36  | 164.59 | 0.19  | 0.71   | 2.57  | NR    | NR    | NR    |
| 9  | 5.80   | 9.13   | 23.16  | 7.25   | 18.98  | 85.24  | 0.11  | 1.02   | 2.07  | NR    | NR    | NR    |
| 10   | 5.19   | 8.61   | 103.56 | 7.15   | 15.27  | 56.49  | 0.10  | 205.69 | 2.05  | NR    | NR    | NR    |
| 11   | 5.19   | 8.61   | 109.66 | 42.84  | 13.00  | 42.56  | 0.10  | 80.13  | 2.23  | NR    | NR    | NR    |
| 12   | 5.85   | 9.35   | 60.48  | 27.60  | 10.61  | 29.14  | 0.10  | 44.36  | 1.44  | NR    | NR    | NR    |
| 13   | 7.48   | 9.84   | 41.89  | 20.65  | 9.31   | 20.09  | 0.10  | 31.20  | 0.79  | NR    | NR    | NR    |
| 14   | 12.26  | 10.02  | 33.82  | 15.32  | 7.68   | 17.38  | 0.10  | 23.99  | 0.70  | NR    | NR    | NR    |
| 15   | 15.15  | 11.05  | 28.56  | 12.24  | 5.95   | 14.43  | 0.11  | 13.19  | 0.99  | NR    | NR    | NR    |
| 16   | 15.07  | 12.82  | 24.16  | 10.91  | 5.15   | 12.01  | 0.18  | 5.80   | 2.84  | NR    | NR    | NR    |
| 17   | 15.07  | 13.10  | 21.43  | 9.96   | 4.74   | 16.67  | 0.11  | 3.29   | 3.75  | NR    | NR    | NR    |
| 18   | 15.36  | 13.41  | 19.30  | 9.41   | 4.00   | 15.39  | 0.10  | 2.11   | 3.07  | NR    | NR    | NR    |
| 19   | 14.46  | 15.14  | 18.30  | 11.02  | 3.25   | 10.55  | 0.10  | 1.70   | 22.95 | NR    | NR    | NR    |
| 20   | 14.39  | 47.46  | 17.86  | 12.81  | 2.80   | 7.85   | 0.10  | 1.38   | 25.89 | NR    | NR    | NR    |
| 21   | 14.75  | 322.23 | 22.11  | 19.60  | 36.82  | 6.15   | 0.10  | 0.94   | 9.68  | NR    | NR    | NR    |
| 22   | 13.86  | 90.10  | 21.43  | 13.96  | 34.46  | 4.44   | 0.10  | 0.74   | 6.64  | NR    | NR    | NR    |
| 23   | 13.56  | 60.45  | 19.80  | 12.01  | 30.50  | 3.38   | 0.10  | 0.85   | 9.16  | NR    | NR    | NR    |
| 24   | 12.66  | 39.54  | 17.64  | 10.36  | 21.91  | 1.82   | 0.10  | 1.26   | 21.64 | NR    | NR    | NR    |
| 25   | 12.15  | 28.45  | 15.85  | 8.54   | 162.81 | 0.99   | 0.10  | 1.56   | 13.07 | NR    | NR    | NR    |
| 26   | 12.45  | 24.15  | 15.69  | 7.05   | 66.01  | 0.80   | 0.11  | 2.76   | 7.40  | NR    | NR    | NR    |
| 27   | 12.15  | 21.94  | 16.21  | 6.80   | 42.48  | 0.71   | 0.19  | 45.76  | 5.77  | NR    | NR    | NR    |
| 28   | 12.45  | 18.77  | 16.05  | 8.25   | 26.80  | 0.68   | 0.20  | 21.73  | 4.54  | NR    | NR    | NR    |
| 29   | 12.07  |        | 14.34  | 37.23  | 18.80  | 0.55   | 7.66  | 9.13   | 3.59  | NR    | NR    | NR    |
| 30   | 11.94  |        | 12.74  | 50.82  | 14.24  | 0.64   | 2.61  | 6.63   | 1.64  | NR    | NR    | NR    |
| 31   | 11.49  |        | 11.88  |        | 21.95  |        | 0.84  | 5.71   |       | NR    |       | NR    |
| MEAN   | 10.294 | 30.393 | 26.319 | 14.327 | 43.273 | 20.402 | 0.498 | 16.694 | 6.205 |       |       |       |
| INCHES   | 0.058  | 0.154  | 0.147  | 0.078  | 0.242  | 0.111  | 0.003 | 0.093  | 0.034 |       |       |       |
| STA AV   | 0.047  | 0.229  | 0.105  | 0.123  | 0.198  | 0.111  | 0.015 | 0.029  | 0.167 | 0.034 | 0.037 | 0.051 |

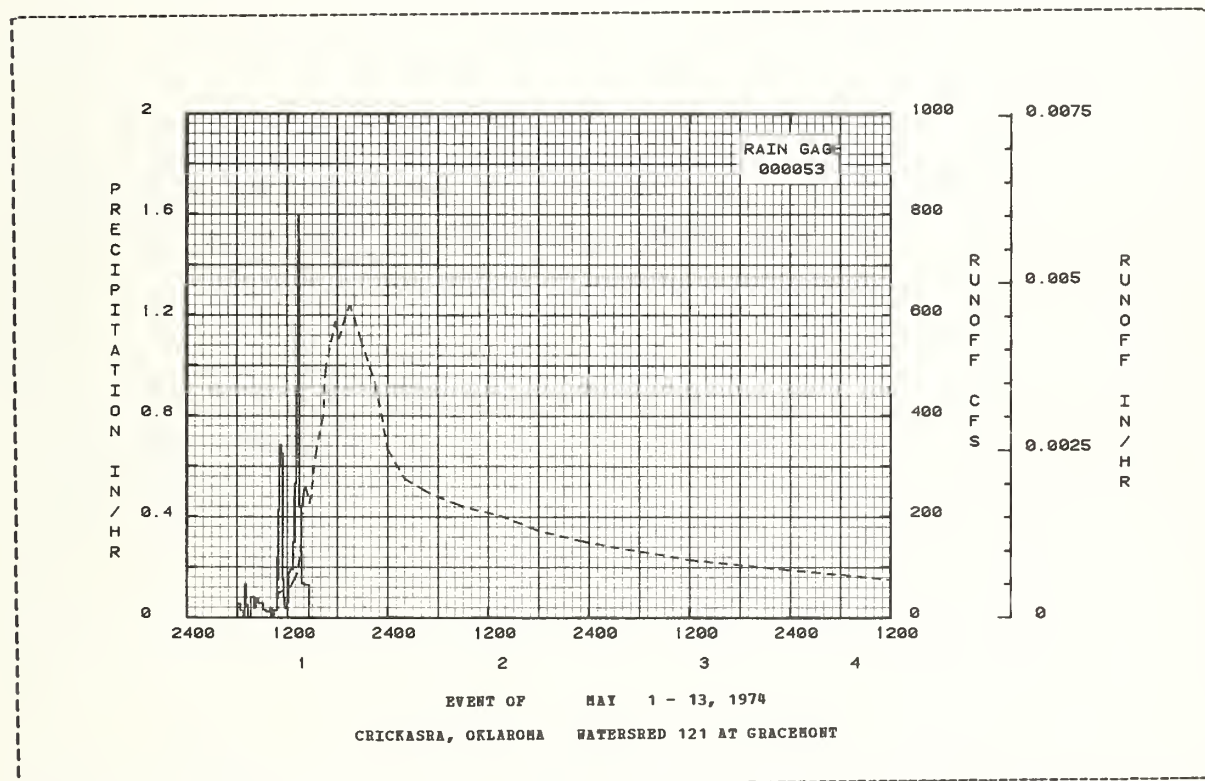
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,982. STA AV based on 12 yr (1963-74) record period. The station was discontinued October 1, 1974.

| 1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED 121 AT GRACEMONT |          |          |           |        |           |        |        |         |          |  |  |
|---|----------|----------|-----------|--------|-----------|--------|--------|---------|----------|--|--|
| ANTECEDENT CONDITIONS   |          |          | MAINFALL  |        |           | RUNOFF |        |         |          |  |  |
| Date  | Mainfall | Runoff   | Date      | Time   | Intensity | Date   | Time   | Rate    | Acc.     |  |  |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | Mo-Day | of Day | (cfs)   | (inches) |  |  |
| EVENT OF MAY 1 - 13, 1974   |          |          |           |        |           |        |        |         |          |  |  |
| RG 000053   |          |          | RG 000053 |        |           |        |        |         |          |  |  |
| 5- 1  | 0.0      | 0.004    | 5- 1      | 600    | 0.0       | 5- 1   | 1041   | 46.900  | 0.0      |  |  |
|   |          |          |           | 622    | 0.0545    |        | 1223   | 61.800  | 0.0007   |  |  |
|   |          |          |           | 645    | 0.0261    |        | 1311   | 87.400  | 0.0011   |  |  |
|   |          |          |           | 653    | 0.0       |        | 1336   | 132.900 | 0.0015   |  |  |
|   |          |          |           | 655    | 0.0       |        | 1348   | 226.400 | 0.0018   |  |  |
| WATERSHED CONDITIONS:   |          |          |           |        |           |        |        |         |          |  |  |
| From a revised 1974 survey;   |          |          |           |        |           |        |        |         |          |  |  |
| sowed crop - 11%; row crop  |          |          |           |        |           |        |        |         |          |  |  |
| 12% alfalfa - 3%; pasture   |          |          |           |        |           |        |        |         |          |  |  |
| and range - 57%; and miscel-  |          |          |           |        |           |        |        |         |          |  |  |
| laneous - 17%.  |          |          |           |        |           |        |        |         |          |  |  |
|   |          |          |           | 704    | 0.1333    |        | 1400   | 254.400 | 0.0021   |  |  |
|   |          |          |           | 716    | 0.0500    |        | 1411   | 256.900 | 0.0025   |  |  |
|   |          |          |           | 738    | 0.0       |        | 1441   | 226.600 | 0.0034   |  |  |
|   |          |          |           | 800    | 0.0818    |        | 1530   | 339.600 | 0.0051   |  |  |
|   |          |          |           | 816    | 0.0375    |        | 1618   | 402.198 | 0.0074   |  |  |
|   |          |          |           | 832    | 0.0750    |        | 1630   | 489.500 | 0.0080   |  |  |
|   |          |          |           | 905    | 0.0545    |        | 1741   | 587.098 | 0.0128   |  |  |
|   |          |          |           | 925    | 0.0300    |        | 1806   | 552.398 | 0.0146   |  |  |
|   |          |          |           | 954    | 0.0207    |        | 1923   | 621.998 | 0.0203   |  |  |
|   |          |          |           | 1010   | 0.0375    |        | 2100   | 537.898 | 0.0273   |  |  |
|   |          |          |           | 1023   | 0.0       |        | 2230   | 461.898 | 0.0330   |  |  |
|   |          |          |           | 1044   | 0.0286    |        | 2400   | 332.500 | 0.0375   |  |  |
|   |          |          |           | 1049   | 0.2400    |        | 200    | 273.800 | 0.0420   |  |  |
|   |          |          |           | 1053   | 0.1500    |        | 500    | 245.200 | 0.0479   |  |  |
|   |          |          |           | 1100   | 0.4286    |        | 900    | 218.500 | 0.0549   |  |  |
|   |          |          |           | 1106   | 0.6000    |        | 1330   | 200.700 | 0.0620   |  |  |
|   |          |          |           | 1113   | 0.6857    |        | 1800   | 171.000 | 0.0682   |  |  |
|   |          |          |           | 1125   | 0.6500    |        | 2400   | 147.200 | 0.0754   |  |  |
|   |          |          |           | 1133   | 0.1500    |        | 1200   | 113.300 | 0.0872   |  |  |
|   |          |          |           | 1141   | 0.0750    |        | 2400   | 93.450  | 0.0965   |  |  |
|   |          |          |           | 1158   | 0.0353    |        | 1200   | 73.600  | 0.1041   |  |  |
|   |          |          |           | 1208   | 0.0600    |        | 2400   | 60.950  | 0.1101   |  |  |
|   |          |          |           | 1218   | 0.1800    |        | 1200   | 48.300  | 0.1151   |  |  |
|   |          |          |           | 1240   | 0.1909    |        | 2400   | 40.950  | 0.1191   |  |  |
|   |          |          |           | 1248   | 0.3000    |        | 1200   | 33.600  | 0.1225   |  |  |

NOTES: To convert runoff in CFS to IN/IN, multiply by 0.00007526.

| 1974                                  |          |          | SELECTED RUNOFF EVENT |        |           |          | CHICKASAW, OKLAHOMA |        | WATERSHED 121 AT GRACEMONT |          |  |  |
|---------------------------------------|----------|----------|-----------------------|--------|-----------|----------|---------------------|--------|----------------------------|----------|--|--|
| ANTECEDENT CONDITIONS                 |          |          | RAINFALL              |        |           |          | RUNOFF              |        |                            |          |  |  |
| Date                                  | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.     | Date                | Time   | Rate                       | Acc.     |  |  |
| Mo-Day                                | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches) | Mo-Day              | of Day | (cfs)                      | (inches) |  |  |
| EVENT OF MAY 1 - 13, 1974 (CONTINUED) |          |          |                       |        |           |          |                     |        |                            |          |  |  |
| 5- 1                                  |          |          | 1253                  |        | 0.4800    | 0.77     | 5- 6                | 2400   | 30.100                     | 0.1254   |  |  |
|                                       |          |          | 1302                  |        | 0.5333    | 0.85     | 5- 7                | 1200   | 26.600                     | 0.1279   |  |  |
|                                       |          |          | 1306                  |        | 0.6000    | 0.89     |                     | 2400   | 24.400                     | 0.1302   |  |  |
|                                       |          |          | 1314                  |        | 0.9000    | 1.01     | 5- 8                | 1200   | 22.200                     | 0.1323   |  |  |
|                                       |          |          | 1317                  |        | 1.6000    | 1.09     |                     | 2400   | 20.650                     | 0.1342   |  |  |
|                                       |          |          | 1321                  |        | 1.5000    | 1.19     | 5- 9                | 1200   | 19.100                     | 0.1360   |  |  |
|                                       |          |          | 1323                  |        | 1.2000    | 1.23     |                     | 2400   | 17.050                     | 0.1377   |  |  |
|                                       |          |          | 1326                  |        | 0.8000    | 1.27     | 5-10                | 1200   | 15.000                     | 0.1391   |  |  |
|                                       |          |          | 1337                  |        | 0.4364    | 1.35     |                     | 2400   | 14.050                     | 0.1404   |  |  |
|                                       |          |          | 1344                  |        | 0.2571    | 1.38     | 5-11                | 1200   | 13.100                     | 0.1417   |  |  |
|                                       |          |          | 1353                  |        | 0.1333    | 1.40     |                     | 2400   | 11.750                     | 0.1428   |  |  |
|                                       |          |          | 1402                  |        | 0.1333    | 1.42     | 5-12                | 1200   | 10.400                     | 0.1438   |  |  |
|                                       |          |          | 1435                  |        | 0.1273    | 1.49     |                     | 2400   | 9.900                      | 0.1447   |  |  |
|                                       |          |          |                       |        |           |          | 5-13                | 1200   | 9.400                      | 0.1456   |  |  |
|                                       |          |          |                       |        |           |          |                     | 2400   | 8.550                      | 0.1464   |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007526.



## CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE

LOCATION: Bedingfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, Okla.; tributary to East Bitter Creek; Washita River; Red River Basin. GAGING STATION--SH1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

AREA: 12314.00 acres 19.24 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE |       |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|--|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May  | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 0.11              | 1.91  | 2.30   | 4.40  | 2.81   | 1.17  | 0.94                                      | 5.26  | 3.42    | 5.38  | 1.56     | 1.59  | 30.85  |       |        |       |        |      |
|   | Q | 0.260             | 0.285 | 0.500  | 0.748 | 0.708  | 0.194 | 0.043                                     | 0.368 | 0.084   | 0.364 | 0.236    | 0.210 | 4.000  |       |        |       |        |      |
| STA AV  | P | 0.99              | 1.22  | 2.10   | 3.13  | 3.82   | 2.84  | 2.34                                      | 3.52  | 4.44    | 3.38  | 1.51     | 1.11  | 30.40  |       |        |       |        |      |
|   | Q | 0.144             | 0.136 | 0.334  | 0.440 | 0.501  | 0.513 | 0.108                                     | 0.198 | 0.252   | 0.262 | 0.198    | 0.143 | 3.230  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |  |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                                      |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date   | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 4-30              | 0.090 | 4-30   | 0.086 | 4-30   | 0.159 | 4-29                                      | 0.302 | 4-29    | 0.369 | 4-29     | 0.417 | 4-29   | 0.576 | 4-29   | 0.835 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |  |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6-5               | 0.281 | 6-4    | 0.272 | 6-4  | 0.502 | 6-4                                       | 0.924 | 6-4     | 1.067 | 6-4      | 1.178 | 6-4    | 1.291 | 5-30   | 2.732 |        |      |
|   |   | 1973              |       | 1973   |       | 1973   |       | 1973                                      |       | 1973    |       | 1973     |       | 1973   |       | 1973   |       |        |      |

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 4%; alfalfa - 1%; pasture and range - 90% and miscellaneous - 5%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.18 | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.30 | 0.0  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.03 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.09 | 0.04 | 0.0  | 0.0  |  |
| 8                                 | 0.0  | 0.0  | 0.45 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 9                                 | 0.09 | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 1.70 | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  |  |
| 10                                | 0.0  | 0.0  | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 2.49 | 0.0  | 0.0  | 0.24 | 0.81 | 0.0  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.41 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.04 | 0.0  | 0.0  | 0.0  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.06 | 0.0  | 0.0  | 0.0  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.71 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 18                                | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 20                                | 0.0  | 0.84 | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 21                                | 0.0  | 0.71 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 22                                | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 1.21 | 0.97 | 0.0  | 0.0  | 0.0  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.94 | 0.0  | 0.0  | 0.0  | 0.15 | 0.43 | 0.0  | 0.0  | 0.0  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  |  |
| 27                                | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.99 | 0.0  | 0.0  | 0.0  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.91 | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 0.0  | 0.21 | 0.0  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.23 | 0.0  |  |
| TOTAL                             | 0.11 | 1.91 | 2.30 | 4.40 | 2.81 | 1.17 | 0.94 | 5.26 | 3.42 | 5.38 | 1.56 | 1.59 |  |  |
| STA AV                            | 0.99 | 1.22 | 2.10 | 3.13 | 3.82 | 2.84 | 2.34 | 3.52 | 4.44 | 3.38 | 1.51 | 1.11 |  |  |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed. STA AV based on 10 yr (1965-74) record period.



| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED 513 NEAR TABLER |       |       |       |        |        |       |       |        |       |       |       |       |
|---|-------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|-------|
| Day   | Jan   | Feb   | Mar   | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct   | Nov   | Dec   |
| 1   | 4.06  | 4.20  | 4.40  | 4.66   | 93.63  | 4.90  | 1.32  | 0.68   | 1.14  | 1.38  | 7.08  | 2.87  |
| 2   | 4.06  | 4.18  | 4.44  | 4.62   | 56.76  | 4.40  | 1.19  | 0.77   | 1.69  | 1.34  | 10.19 | 2.97  |
| 3   | 4.06  | 4.06  | 4.22  | 4.58   | 19.01  | 4.35  | 1.10  | 0.63   | 1.53  | 1.33  | 10.47 | 3.07  |
| 4   | 4.06  | 3.95  | 4.05  | 4.37   | 14.02  | 4.42  | 1.41  | 0.63   | 1.23  | 1.33  | 7.33  | 3.07  |
| 5   | 4.06  | 3.93  | 3.86  | 4.33   | 12.03  | 4.13  | 1.43  | 0.61   | 1.14  | 1.31  | 4.54  | 3.04  |
| 6   | 4.06  | 3.91  | 3.99  | 4.31   | 10.92  | 8.45  | 1.20  | 0.65   | 1.08  | 1.26  | 3.92  | 3.34  |
| 7   | 4.06  | 3.80  | 3.86  | 4.22   | 9.97   | 9.81  | 0.99  | 0.70   | 1.03  | 1.49  | 3.48  | 3.18  |
| 8   | 4.06  | 3.72  | 4.49  | 4.22   | 9.30   | 4.98  | 0.88  | 0.61   | 0.96  | 1.53  | 3.39  | 2.88  |
| 9   | 4.06  | 3.90  | 6.68  | 4.35   | 8.96   | 4.32  | 0.82  | 3.04   | 0.88  | 1.53  | 3.92  | 2.79  |
| 10  | 4.06  | 3.93  | 75.49 | 4.62   | 8.36   | 3.62  | 0.76  | 151.85 | 0.88  | 1.52  | 4.93  | 4.15  |
| 11  | 4.06  | 3.93  | 24.02 | 31.80  | 7.73   | 3.31  | 0.65  | 6.81   | 0.93  | 1.47  | 4.34  | 8.15  |
| 12  | 4.13  | 3.93  | 9.09  | 8.69   | 7.17   | 3.11  | 0.61  | 2.81   | 0.80  | 1.47  | 3.65  | 6.45  |
| 13  | 4.55  | 3.93  | 7.13  | 6.06   | 6.78   | 3.09  | 0.61  | 1.90   | 0.77  | 1.54  | 3.49  | 5.10  |
| 14  | 4.64  | 3.91  | 6.58  | 5.17   | 6.58   | 3.16  | 0.63  | 1.49   | 0.79  | 1.67  | 3.13  | 4.26  |
| 15  | 4.74  | 3.82  | 6.20  | 5.05   | 6.44   | 3.05  | 0.64  | 1.33   | 1.08  | 1.74  | 3.01  | 3.82  |
| 16  | 4.78  | 3.78  | 5.77  | 4.91   | 6.47   | 2.82  | 0.63  | 1.20   | 2.10  | 1.69  | 3.18  | 3.55  |
| 17  | 4.89  | 3.77  | 5.73  | 4.78   | 5.93   | 2.94  | 0.57  | 1.08   | 1.76  | 1.67  | 3.30  | 3.34  |
| 18  | 4.89  | 4.23  | 5.80  | 4.78   | 5.54   | 2.90  | 0.53  | 0.97   | 1.61  | 1.61  | 3.31  | 3.31  |
| 19  | 4.78  | 4.17  | 5.51  | 4.91   | 5.22   | 2.48  | 0.52  | 0.87   | 1.63  | 1.60  | 3.28  | 3.31  |
| 20  | 4.74  | 4.41  | 6.00  | 5.05   | 4.95   | 2.18  | 0.49  | 0.77   | 1.80  | 1.59  | 3.11  | 3.31  |
| 21  | 4.62  | 33.56 | 7.02  | 5.05   | 4.91   | 2.02  | 0.46  | 0.69   | 1.78  | 1.54  | 3.09  | 3.31  |
| 22  | 4.47  | 8.49  | 6.36  | 4.88   | 4.87   | 2.00  | 0.41  | 0.68   | 1.49  | 1.54  | 3.16  | 3.31  |
| 23  | 4.35  | 5.55  | 6.11  | 4.52   | 4.66   | 1.98  | 0.40  | 0.65   | 1.46  | 1.73  | 3.05  | 3.28  |
| 24  | 4.31  | 4.31  | 5.48  | 4.45   | 4.65   | 1.84  | 0.40  | 0.68   | 2.31  | 2.79  | 2.79  | 3.10  |
| 25  | 4.23  | 3.96  | 5.38  | 4.35   | 9.95   | 1.78  | 0.40  | 0.72   | 3.21  | 3.88  | 2.78  | 2.97  |
| 26  | 4.31  | 3.93  | 5.38  | 4.33   | 7.86   | 1.81  | 0.41  | 0.87   | 2.23  | 3.13  | 2.94  | 2.87  |
| 27  | 4.33  | 3.93  | 5.38  | 4.33   | 5.51   | 1.76  | 0.44  | 1.65   | 1.76  | 2.40  | 2.94  | 2.86  |
| 28  | 4.31  | 4.00  | 5.36  | 4.26   | 4.66   | 1.68  | 0.39  | 1.48   | 1.48  | 19.90 | 2.78  | 2.87  |
| 29  | 4.22  |       | 5.20  | 22.70  | 4.22   | 1.58  | 0.51  | 1.27   | 1.35  | 4.42  | 2.76  | 3.00  |
| 30  | 4.20  |       | 4.95  | 202.73 | 4.15   | 1.41  | 0.98  | 1.15   | 1.38  | 69.85 | 2.85  | 3.38  |
| 31  | 4.20  |       | 4.87  |        | 5.14   |       | 0.63  | 1.08   |       | 46.88 |       | 1.99  |
| MEAN  | 4.334 | 5.257 | 8.349 | 12.903 | 11.818 | 3.343 | 0.723 | 6.139  | 1.443 | 6.069 | 4.073 | 3.513 |
| INCHES  | 0.260 | 0.285 | 0.500 | 0.748  | 0.708  | 0.194 | 0.043 | 0.368  | 0.084 | 0.364 | 0.236 | 0.210 |
| STA AV  | 0.144 | 0.136 | 0.334 | 0.440  | 0.501  | 0.513 | 0.108 | 0.198  | 0.252 | 0.262 | 0.198 | 0.143 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1.026. STA AV based on 10 yr (1965-74) record period.

| 1974 SELECTED RUNOFF EVENT   |           |          | CHICKASRA, OKLAHOMA |           |           |          | WATERSHED 513 NEAR TABLER |        |         |          |
|------------------------------|-----------|----------|---------------------|-----------|-----------|----------|---------------------------|--------|---------|----------|
| ANTECEDENT CONDITIONS        |           |          | RAINFALL            |           |           |          | RUNOFF                    |        |         |          |
| Date                         | Rainfall  | Rnoff    | Date                | Time      | Intensity | Acc.     | Date                      | Time   | Rate    | Acc.     |
| Mo-Day                       | (inches)  | (inches) | Mo-Day              | of Day    | (in/hr)   | (inches) | Mo-Day                    | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 9 - 13, 1974 |           |          |                     |           |           |          |                           |        |         |          |
| 8- 9                         | RG 000090 |          | 8- 9                | RG 000090 |           |          | 8- 9                      | 2106   | 0.490   | 0.0      |
|                              | 0.0       | 0.001    |                     | 2100      | 0.0       | 0.0      |                           | 2118   | 2.860   | 0.0000   |
|                              |           |          |                     | 2101      | 1.2000    | 0.02     |                           | 2141   | 10.910  | 0.0002   |
|                              |           |          |                     | 2102      | 1.2000    | 0.04     |                           | 2148   | 20.670  | 0.0004   |
|                              |           |          |                     | 2104      | 0.3000    | 0.05     |                           | 2200   | 30.180  | 0.0008   |
|                              |           |          |                     | 2107      | 0.0       | 0.05     |                           |        |         |          |
| WATERSHED CONDITIONS:        |           |          |                     |           |           |          |                           |        |         |          |
| From a revised 1971 survey;  |           |          |                     |           | 2111      | 0.1500   | 0.06                      | 2218   | 31.160  | 0.0015   |
| sowed crop - 4%; alfalfa -   |           |          |                     |           | 2114      | 0.2000   | 0.07                      | 2241   | 24.280  | 0.0024   |
| 1%; pasture and range - 90%; |           |          |                     |           | 2116      | 0.0      | 0.07                      | 2311   | 18.820  | 0.0033   |
| and miscellaneous - 5%.      |           |          |                     |           | 2119      | 0.2000   | 0.08                      | 2400   | 33.700  | 0.0050   |
|                              |           |          |                     | 2122      | 1.4000    | 0.15     | 8-10                      | 23     | 35.830  | 0.0061   |
|                              |           |          |                     | 2123      | 1.7988    | 0.18     |                           | 41     | 35.290  | 0.0069   |
|                              |           |          |                     | 2124      | 3.6000    | 0.24     |                           | 141    | 28.750  | 0.0095   |
|                              |           |          |                     | 2125      | 1.2000    | 0.26     |                           | 200    | 33.190  | 0.0103   |
|                              |           |          |                     | 2126      | 2.4000    | 0.30     |                           | 311    | 52.470  | 0.0144   |
|                              |           |          |                     | 2128      | 5.6988    | 0.49     |                           | 400    | 59.700  | 0.0181   |
|                              |           |          |                     | 2129      | 11.4028   | 0.68     |                           | 500    | 58.210  | 0.0228   |
|                              |           |          |                     | 2130      | 2.3984    | 0.72     |                           | 541    | 73.400  | 0.0264   |
|                              |           |          |                     | 2131      | 6.0015    | 0.82     |                           | 611    | 117.810 | 0.0303   |
|                              |           |          |                     | 2132      | 3.6000    | 0.88     |                           | 641    | 172.070 | 0.0361   |
|                              |           |          |                     | 2134      | 1.8000    | 0.94     |                           | 648    | 203.490 | 0.0379   |
|                              |           |          |                     | 2138      | 1.5000    | 1.04     |                           | 653    | 257.170 | 0.0394   |
|                              |           |          |                     | 2140      | 0.9000    | 1.07     |                           | 700    | 337.198 | 0.0422   |
|                              |           |          |                     | 2141      | 1.7988    | 1.10     |                           | 706    | 418.398 | 0.0453   |
|                              |           |          |                     | 2143      | 1.2000    | 1.14     |                           | 711    | 532.418 | 0.0485   |
|                              |           |          |                     | 2151      | 1.5000    | 1.34     |                           | 718    | 614.979 | 0.0538   |
|                              |           |          |                     | 2152      | 3.6000    | 1.40     |                           | 730    | 738.678 | 0.0647   |
|                              |           |          |                     | 2153      | 2.3984    | 1.44     |                           | 741    | 824.029 | 0.0763   |
|                              |           |          |                     | 2154      | 4.2011    | 1.51     |                           | 753    | 872.648 | 0.0899   |
|                              |           |          |                     | 2156      | 1.2000    | 1.55     |                           | 811    | 891.809 | 0.1113   |
|                              |           |          |                     | 2157      | 2.4000    | 1.59     |                           | 823    | 861.280 | 0.1254   |

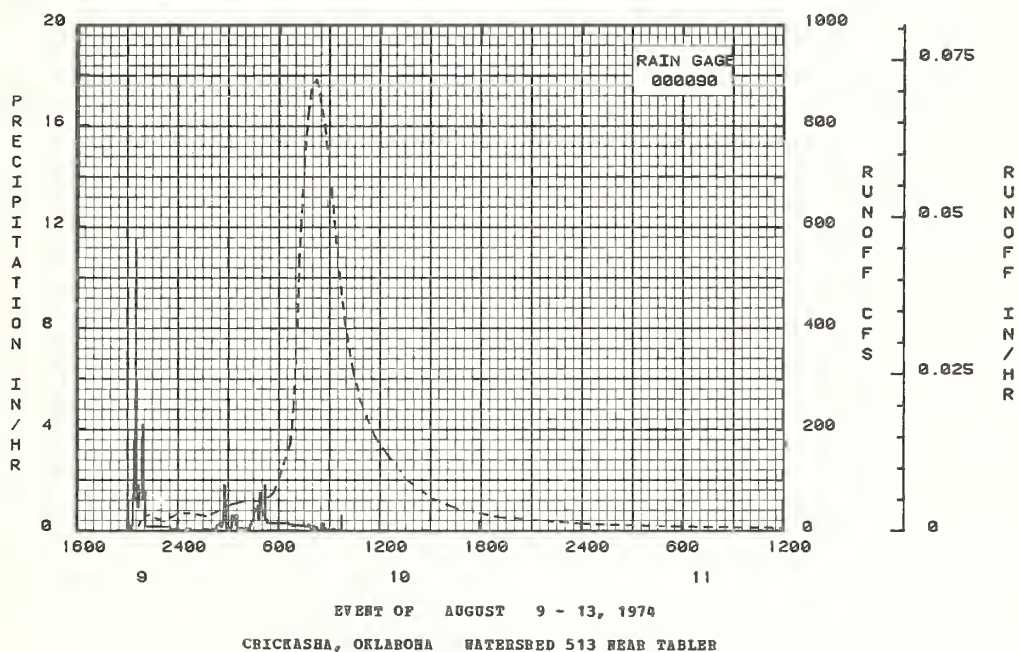
NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.0008054.

| 1974 SELECTED RUNOFF EVENT               |          |          | CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE |        |           |          |        |        |         |          |
|--|----------|----------|--|--------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS                    |          |          | RAINFALL                                     |        |           | RUNOFF   |        |        |         |          |
| Date                                     | Rainfall | Runoff   | Date   | Time   | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day                                   | (inches) | (inches) | Mo-Day                                       | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF AUGUST 9 - 13, 1974 (CONTINUED) |          |          |  |        |           |          |        |        |         |          |
| 8-9                                      |          |          | 2201   |        | 1.6500    | 1.70     | 8-10   | 841    | 798.548 | 0.1454   |
|  |          |          | 2205   |        | 1.5000    | 1.80     |        | 906    | 671.849 | 0.1701   |
|  |          |          | 2335   |        | 0.1400    | 2.01     |        | 930    | 526.300 | 0.1894   |
|  |          |          | 2341   |        | 0.0       | 2.01     |        | 953    | 418.398 | 0.2040   |
|  |          |          | 2355   |        | 0.0429    | 2.02     |        | 1023   | 319.188 | 0.2188   |
| 8-10                                     |          |          | 2  |        | 0.0857    | 2.03     |        | 1053   | 253.340 | 0.2304   |
|  |          |          | 32   |        | 0.0       | 2.03     |        | 1141   | 187.360 | 0.2446   |
|  |          |          | 39   |        | 0.0857    | 2.04     |        | 1241   | 140.010 | 0.2577   |
|  |          |          | 46   |        | 0.0857    | 2.05     |        | 1341   | 99.050  | 0.2674   |
|  |          |          | 130  |        | 0.0       | 2.05     |        | 1511   | 62.760  | 0.2771   |
|  |          |          | 138  |        | 0.0       | 2.05     |        | 1641   | 42.730  | 0.2835   |
|  |          |          | 147  |        | 0.0667    | 2.06     |        | 1911   | 26.900  | 0.2905   |
|  |          |          | 206  |        | 0.0316    | 2.07     |        | 2400   | 14.220  | 0.2985   |
|  |          |          | 214  |        | 0.0750    | 2.08     | 8-11   | 600    | 8.360   | 0.3040   |
|  |          |          | 221  |        | 0.0857    | 2.09     |        | 1200   | 5.710   | 0.3074   |
|  |          |          | 229  |        | 0.2250    | 2.12     |        | 1800   | 4.330   | 0.3098   |
|  |          |          | 232  |        | 0.2000    | 2.13     |        | 2400   | 3.430   | 0.3117   |
|  |          |          | 236  |        | 0.3000    | 2.15     | 8-12   | 1200   | 2.750   | 0.3147   |
|  |          |          | 241  |        | 0.1200    | 2.16     |        | 2400   | 2.290   | 0.3171   |
|  |          |          | 243  |        | 0.3000    | 2.17     | 8-13   | 1200   | 1.830   | 0.3191   |
|  |          |          | 245  |        | 0.6000    | 2.19     |        | 2400   | 1.645   | 0.3208   |
|  |          |          | 247  |        | 1.5000    | 2.24     |        |        |         |          |
|  |          |          | 248  |        | 1.8000    | 2.27     |        |        |         |          |
|  |          |          | 249  |        | 1.8000    | 2.30     |        |        |         |          |
|  |          |          | 252  |        | 0.8000    | 2.34     |        |        |         |          |
|  |          | 253      |  | 1.2000 | 2.36      |          |        |        |         |          |
|  |          | 255      |  | 0.3000 | 2.37      |          |        |        |         |          |
|  |          | 304      |  | 0.0667 | 2.38      |          |        |        |         |          |
|  |          | 309      |  | 0.0    | 2.38      |          |        |        |         |          |
|  |          | 314      |  | 0.1200 | 2.39      |          |        |        |         |          |
|  |          | 318      |  | 0.6000 | 2.43      |          |        |        |         |          |
|  |          | 320      |  | 0.6000 | 2.45      |          |        |        |         |          |
|  |          | 323      |  | 0.4000 | 2.47      |          |        |        |         |          |
|  |          | 328      |  | 0.6000 | 2.52      |          |        |        |         |          |
|  |          | 331      |  | 0.2000 | 2.53      |          |        |        |         |          |
|  |          | 334      |  | 0.6000 | 2.56      |          |        |        |         |          |
|  |          | 344      |  | 0.0    | 2.56      |          |        |        |         |          |
|  |          | 350      |  | 0.1000 | 2.57      |          |        |        |         |          |
|  |          | 358      |  | 0.0750 | 2.58      |          |        |        |         |          |
|  |          | 406      |  | 0.0750 | 2.59      |          |        |        |         |          |
|  |          | 420      |  | 0.0857 | 2.61      |          |        |        |         |          |
|  |          | 425      |  | 0.2400 | 2.63      |          |        |        |         |          |
|  |          | 432      |  | 0.4286 | 2.68      |          |        |        |         |          |
|  |          | 434      |  | 0.9000 | 2.71      |          |        |        |         |          |
|  |          | 438      |  | 0.7500 | 2.76      |          |        |        |         |          |
|  |          | 446      |  | 0.8250 | 2.87      |          |        |        |         |          |
|  |          | 449      |  | 1.0000 | 2.92      |          |        |        |         |          |
|  |          | 453      |  | 0.4500 | 2.95      |          |        |        |         |          |
|  |          | 457      |  | 1.5000 | 3.05      |          |        |        |         |          |
|  |          | 500      |  | 1.0000 | 3.10      |          |        |        |         |          |
|  |          | 504      |  | 0.7500 | 3.15      |          |        |        |         |          |
|  |          | 510      |  | 0.6000 | 3.21      |          |        |        |         |          |
|  |          | 512      |  | 0.6000 | 3.23      |          |        |        |         |          |
|  |          | 513      |  | 1.8000 | 3.26      |          |        |        |         |          |
|  |          | 520      |  | 0.4286 | 3.31      |          |        |        |         |          |
|  |          | 636      |  | 0.2842 | 3.67      |          |        |        |         |          |
|  |          | 651      |  | 0.2400 | 3.73      |          |        |        |         |          |
|  |          | 658      |  | 0.1714 | 3.75      |          |        |        |         |          |
|  |          | 706      |  | 0.2250 | 3.78      |          |        |        |         |          |
|  |          | 722      |  | 0.1875 | 3.83      |          |        |        |         |          |
|  |          | 729      |  | 0.1714 | 3.85      |          |        |        |         |          |
|  |          | 734      |  | 0.2400 | 3.87      |          |        |        |         |          |
|  |          | 746      |  | 0.1500 | 3.90      |          |        |        |         |          |
|  |          | 751      |  | 0.2400 | 3.92      |          |        |        |         |          |
|  |          | 754      |  | 0.2000 | 3.93      |          |        |        |         |          |
|  |          | 802      |  | 0.0750 | 3.94      |          |        |        |         |          |
|  |          | 805      |  | 0.0    | 3.94      |          |        |        |         |          |
|  |          | 808      |  | 0.2000 | 3.95      |          |        |        |         |          |
|  |          | 815      |  | 0.0    | 3.95      |          |        |        |         |          |
|  |          | 819      |  | 0.1500 | 3.96      |          |        |        |         |          |
|  |          | 827      |  | 0.0    | 3.96      |          |        |        |         |          |
|  |          | 834      |  | 0.0    | 3.96      |          |        |        |         |          |
|  |          | 839      |  | 0.0    | 3.96      |          |        |        |         |          |
|  |          | 843      |  | 0.3000 | 3.98      |          |        |        |         |          |
|  |          | 850      |  | 0.0857 | 3.99      |          |        |        |         |          |

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0008054.

| 1974 SELECTED RUNOFF EVENT               |          |          | CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER |        |           |          |        |        |       |          |
|--|----------|----------|---|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS                    |          |          | RAINFALL                                      |        |           | RUNOFF   |        |        |       |          |
| Date                                     | Rainfall | Runoff   | Date  | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                                   | (inches) | (inches) | Mo-Day  | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF AUGUST 9 - 13, 1974 (CONTINUED) |          |          |   |        |           |          |        |        |       |          |
| 8-10                                     |          |          |   | 913    | 0.0       | 3.99     |        |        |       |          |
|  |          |          |   | 921    | 0.0750    | 4.00     |        |        |       |          |
|  |          |          |   | 945    | 0.0       | 4.00     |        |        |       |          |
|  |          |          |   | 946    | 0.6000    | 4.01     |        |        |       |          |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008054.



## CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--HW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec. N, long. 97 deg. 57 min. 30 sec. W.

AREA: 15206.00 acres 23.76 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET |       |   |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---|-------|---|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May   | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov    | Dec   | Annual |       |
| 1974  | P | 0.10              | 1.81  | 3.23   | 3.40  | 5.46  | 1.55  | 2.24                                      | 4.15  | 2.96  | 3.95  | 2.57   | 1.36  | 32.78  |       |
|   | Q | 0.025             | 0.146 | 0.847  | 0.144 | 0.944   | 0.219 | 0.005                                     | 0.161 | 0.004 | 0.182 | 0.559  | 0.064 | 3.300  |       |
| STA AV  | P | 0.91              | 0.93  | 2.08   | 3.25  | 4.46  | 3.30  | 1.93                                      | 2.37  | 3.80  | 3.21  | 1.56   | 0.96  | 28.73  |       |
|   | Q | 0.041             | 0.028 | 0.218  | 0.428 | 0.528   | 0.426 | 0.005                                     | 0.027 | 0.071 | 0.157 | 0.098  | 0.025 | 2.051  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours   |       | Maximum Volume for Selected Time Interval |       |       |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date  | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 5-31              | 0.075 | 5-31   | 0.074 | 5-31  | 0.147 | 5-31                                      | 0.375 | 5-31  | 0.468 | 5-31   | 0.503 | 5-31   | 0.533 |
|   |   |                   |       |        |       |   |       |   |       |       |       |        |       | 3- 8   | 0.778 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |   |       |   |       |       |       |        |       |        |       |
|   |   | 4-12              | 0.320 | 4-12   | 0.314 | 4-12  | 0.600 | 4-12                                      | 1.201 | 4-12  | 1.310 | 4-12   | 1.338 | 4-12   | 1.424 |
|   |   | 1967              |       | 1967   |       | 1967  |       | 1967                                      |       | 1967  |       | 1967   |       | 1967   |       |

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 37%; row crop - 2%; alfalfa - 2%; pasture and range - 52%; and miscellaneous - 7%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches)               |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Day   | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |
| 1   | 0.01 | 0.0  | 0.0  | 0.0  | 1.49 | 0.0  | 0.0  | 0.24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  | 1.56 | 0.0  | 0.0  |
| 3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.10 | 0.0  | 0.0  | 0.40 | 0.0  | 0.0  |
| 4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.70 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 |
| 6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.02 | 0.0  |
| 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.05 | 0.08 | 0.0  | 0.0  |
| 8   | 0.0  | 0.0  | 1.79 | 0.0  | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9   | 0.06 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  |
| 10  | 0.0  | 0.0  | 1.22 | 0.0  | 0.0  | 0.0  | 0.0  | 1.49 | 0.0  | 0.0  | 0.18 | 0.69 | 0.0  |
| 11  | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  |
| 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 14  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 15  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.46 | 0.0  | 0.0  | 0.0  | 0.0  |
| 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19  | 0.01 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.0  | 0.0  | 0.0  |
| 20  | 0.0  | 1.16 | 0.20 | 0.62 | 0.02 | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.0  |
| 21  | 0.0  | 0.44 | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  |
| 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.16 | 1.16 | 0.68 | 0.0  | 0.0  | 0.0  |
| 25  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  | 0.0  | 0.03 | 0.83 | 0.0  | 0.0  | 0.0  |
| 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |
| 27  | 0.02 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.42 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  |
| 28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.61 | 0.0  | 0.0  | 0.0  |
| 29  | 0.0  | 0.0  | 0.0  | 1.74 | 0.0  | 0.0  | 1.54 | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  |
| 30  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.22 | 0.0  | 0.21 | 0.0  |
| 31  | 0.0  | 0.0  | 0.0  | 0.0  | 2.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.18 | 0.0  |
| TOTAL   | 0.10 | 1.81 | 3.23 | 3.40 | 5.46 | 1.55 | 2.24 | 4.15 | 2.96 | 3.95 | 2.57 | 1.36 |      |
| STA AV  | 0.91 | 0.93 | 2.08 | 3.25 | 4.46 | 3.30 | 1.93 | 2.37 | 3.80 | 3.21 | 1.56 | 0.96 |      |

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 8 yr (1967-74) record period.



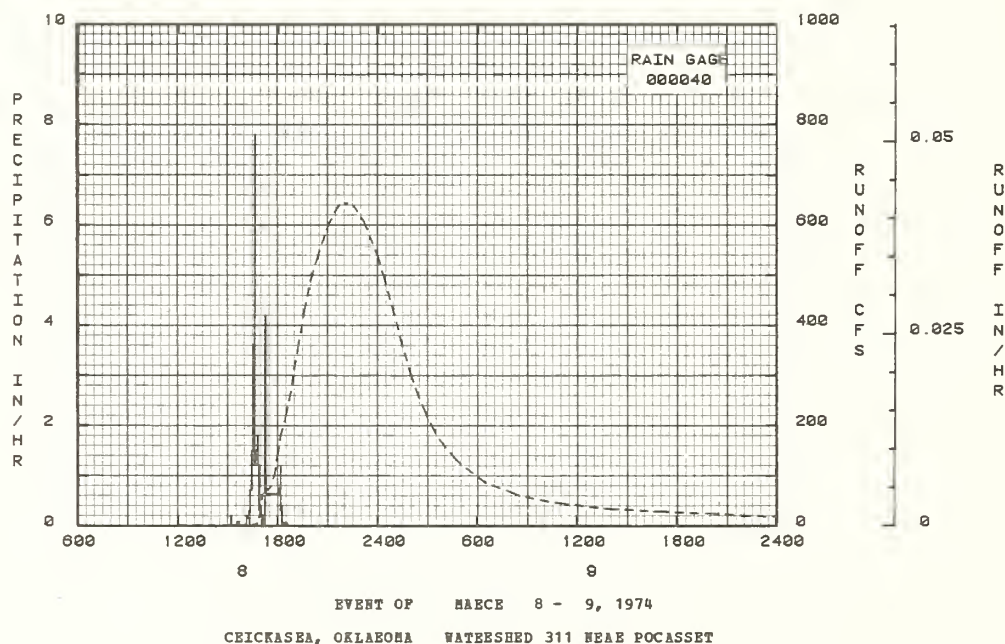
| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASEA, OKLAHOMA WATERSEED 311 NEAR POCASSET |       |       |        |       |        |       |       |       |       |       |        |       |
|---|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|
| Day   | Jan   | Feb   | Mar    | Apr   | May    | Jun   | Jul   | Aug   | Sep   | Oct   | Nov    | Dec   |
| 1   | 0.47  | 0.44  | 0.98   | 1.38  | 159.38 | 23.61 | 0.02  | 0.46  | 0.09  | 0.02  | 7.06   | 0.79  |
| 2   | 0.40  | 0.44  | 0.97   | 1.21  | 62.66  | 10.19 | 0.02  | 0.15  | 0.06  | 0.01  | 214.63 | 0.79  |
| 3   | 0.33  | 0.44  | 0.92   | 1.19  | 16.05  | 16.38 | 0.04  | 0.06  | 0.16  | 0.01  | 43.46  | 0.80  |
| 4   | 0.36  | 0.40  | 0.90   | 1.18  | 9.03   | 8.00  | 0.13  | 0.03  | 0.46  | 0.01  | 28.20  | 0.85  |
| 5   | 0.36  | 0.39  | 0.84   | 1.12  | 6.91   | 4.53  | 0.13  | 0.08  | 0.17  | 0.01  | 9.84   | 0.92  |
| 6   | 0.36  | 0.37  | 0.74   | 1.10  | 5.45   | 15.41 | 0.08  | 0.10  | 0.05  | 0.02  | 5.85   | 1.04  |
| 7   | 0.37  | 0.36  | 0.69   | 1.02  | 4.03   | 15.97 | 0.06  | 0.04  | 0.01  | 0.03  | 4.57   | 1.16  |
| 8   | 0.38  | 0.36  | 129.94 | 0.81  | 2.93   | 14.66 | 0.03  | 0.01  | 0.01  | 0.06  | 3.47   | 1.09  |
| 9   | 0.33  | 0.36  | 92.12  | 0.69  | 2.22   | 11.14 | 0.01  | 0.02  | 0.00  | 0.07  | 3.02   | 0.93  |
| 10  | 0.32  | 0.36  | 185.73 | 4.31  | 1.84   | 4.76  | 0.00  | 66.90 | 0.0   | 0.04  | 4.20   | 1.28  |
| 11  | 0.32  | 0.36  | 54.98  | 6.76  | 1.81   | 3.09  | 0.0   | 17.60 | 0.0   | 0.03  | 4.74   | 2.35  |
| 12  | 0.32  | 0.36  | 14.83  | 3.92  | 1.43   | 2.30  | 0.0   | 7.14  | 0.0   | 0.02  | 3.06   | 3.55  |
| 13  | 0.33  | 0.36  | 8.55   | 1.95  | 1.08   | 1.72  | 0.0   | 4.45  | 0.0   | 0.02  | 2.18   | 3.10  |
| 14  | 0.44  | 0.37  | 5.92   | 1.04  | 0.98   | 1.35  | 0.0   | 3.18  | 0.0   | 0.06  | 2.03   | 2.25  |
| 15  | 0.54  | 0.39  | 4.09   | 0.95  | 0.91   | 1.11  | 0.0   | 1.69  | 0.00  | 0.08  | 1.73   | 1.80  |
| 16  | 0.76  | 0.40  | 3.08   | 0.85  | 0.85   | 0.92  | 0.0   | 0.72  | 0.01  | 0.08  | 1.60   | 1.52  |
| 17  | 0.79  | 0.40  | 2.66   | 0.75  | 0.78   | 0.79  | 0.0   | 0.17  | 0.01  | 0.08  | 1.53   | 1.36  |
| 18  | 0.78  | 0.44  | 2.50   | 0.74  | 0.63   | 0.68  | 0.0   | 0.02  | 0.00  | 0.05  | 1.60   | 1.36  |
| 19  | 0.74  | 0.42  | 2.42   | 0.78  | 0.56   | 0.57  | 0.0   | 0.00  | 0.01  | 0.05  | 1.69   | 1.47  |
| 20  | 0.74  | 0.78  | 3.15   | 0.81  | 0.50   | 0.45  | 0.0   | 0.0   | 0.01  | 0.08  | 1.70   | 1.34  |
| 21  | 0.77  | 68.22 | 3.91   | 5.41  | 0.51   | 0.39  | 0.0   | 0.0   | 0.01  | 0.10  | 1.32   | 1.20  |
| 22  | 0.73  | 7.30  | 3.38   | 4.53  | 0.51   | 0.33  | 0.0   | 0.0   | 0.00  | 0.12  | 1.22   | 1.12  |
| 23  | 0.68  | 3.20  | 2.54   | 3.44  | 0.44   | 0.32  | 0.0   | 0.0   | 0.02  | 0.11  | 1.34   | 1.11  |
| 24  | 0.62  | 2.05  | 1.96   | 2.59  | 0.36   | 0.29  | 0.0   | 0.0   | 0.12  | 0.17  | 1.45   | 1.09  |
| 25  | 0.58  | 1.45  | 1.92   | 1.58  | 0.45   | 0.24  | 0.0   | 0.0   | 0.40  | 0.33  | 1.21   | 0.93  |
| 26  | 0.57  | 1.13  | 2.14   | 1.03  | 2.69   | 0.21  | 0.0   | 0.0   | 0.40  | 39.43 | 1.03   | 0.86  |
| 27  | 0.56  | 1.00  | 2.14   | 0.87  | 1.19   | 0.07  | 0.0   | 0.0   | 0.18  | 3.07  | 0.87   | 0.86  |
| 28  | 0.53  | 0.98  | 1.92   | 0.85  | 0.75   | 0.06  | 0.0   | 0.0   | 0.10  | 8.09  | 0.84   | 0.92  |
| 29  | 0.51  |       | 1.87   | 3.38  | 0.53   | 0.07  | 0.02  | 0.0   | 0.08  | 4.52  | 0.80   | 1.03  |
| 30  | 0.49  |       | 1.79   | 36.07 | 0.36   | 0.06  | 0.80  | 0.0   | 0.05  | 8.37  | 0.79   | 1.15  |
| 31  | 0.48  |       | 1.73   |       | 315.55 |       | 1.71  | 0.34  |       | 50.87 |        | 0.70  |
| MEAN  | 0.515 | 3.340 | 17.462 | 3.076 | 19.464 | 4.656 | 0.099 | 3.328 | 0.080 | 3.743 | 11.901 | 1.313 |
| INCHES  | 0.025 | 0.146 | 0.847  | 0.144 | 0.944  | 0.219 | 0.005 | 0.161 | 0.004 | 0.182 | 0.559  | 0.064 |
| STA AV  | 0.041 | 0.028 | 0.218  | 0.428 | 0.528  | 0.426 | 0.005 | 0.027 | 0.071 | 0.157 | 0.098  | 0.025 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV based on 8 yr (1967-74) record period.

| 1974 SELECTED EUNOFF EVENT   |          |          | CHICKASEA, OKLAHOMA |        |           |          | WATERSEED 311 NEAR POCASSET |        |         |          |
|------------------------------|----------|----------|---------------------|--------|-----------|----------|-----------------------------|--------|---------|----------|
| ANTECEDENT CONDITIONS        |          |          | RAINFALL            |        |           |          | EUNOFF                      |        |         |          |
| Date                         | Rainfall | Eunoff   | Date                | Time   | Intensity | Acc.     | Date                        | Time   | Rate    | Acc.     |
| Mo-Day                       | (inches) | (inches) | Mo-Day              | of Day | (in/hr)   | (inches) | Mo-Day                      | of Day | (cfs)   | (inches) |
| EVENT OF MARCE 8 - 9, 1974   |          |          |                     |        |           |          |                             |        |         |          |
| EG 000040                    |          |          | EG 000040           |        |           |          |                             |        |         |          |
| 3- 8                         | 0.0      | 0.001    | 3- 8                | 1510   | 0.0       | 0.0      | 3- 8                        | 1200   | 0.680   | 0.0      |
|                              |          |          |                     | 1513   | 0.2000    | 0.01     |                             | 1630   | 0.570   | 0.0002   |
|                              |          |          |                     | 1535   | 0.0       | 0.01     |                             | 1648   | 5.120   | 0.0002   |
|                              |          |          |                     | 1543   | 0.0750    | 0.02     |                             | 1653   | 16.690  | 0.0003   |
|                              |          |          |                     | 1607   | 0.0       | 0.02     |                             | 1700   | 38.870  | 0.0005   |
| WATERSEED CONDITIONS:        |          |          |                     |        |           |          |                             |        |         |          |
| From a revised 1974 survey;  |          |          |                     | 1613   | 0.2000    | 0.04     |                             | 1706   | 61.650  | 0.0008   |
| sowed crop - 37%; row crop - |          |          |                     | 1617   | 0.1500    | 0.05     |                             | 1736   | 78.780  | 0.0031   |
| 2%; alfalfa - 2%; pasture    |          |          |                     | 1619   | 0.3000    | 0.06     |                             | 1748   | 100.410 | 0.0043   |
| and range - 52%; and miscel- |          |          |                     | 1620   | 0.0       | 0.06     |                             | 1800   | 141.720 | 0.0059   |
| laneous - 7%.                |          |          |                     | 1625   | 0.7200    | 0.12     |                             | 1811   | 179.130 | 0.0078   |
|                              |          |          |                     | 1627   | 1.5000    | 0.17     |                             | 1830   | 221.260 | 0.0119   |
|                              |          |          |                     | 1629   | 1.5000    | 0.22     |                             | 1848   | 268.270 | 0.0167   |
|                              |          |          |                     | 1631   | 1.5000    | 0.27     |                             | 1900   | 314.800 | 0.0205   |
|                              |          |          |                     | 1632   | 3.6000    | 0.33     |                             | 1918   | 371.590 | 0.0272   |
|                              |          |          |                     | 1633   | 3.6000    | 0.39     |                             | 1936   | 429.948 | 0.0351   |
|                              |          |          |                     | 1636   | 2.0000    | 0.49     |                             | 2000   | 494.668 | 0.0471   |
|                              |          |          |                     | 1637   | 7.8019    | 0.62     |                             | 2030   | 549.290 | 0.0641   |
|                              |          |          |                     | 1640   | 1.2000    | 0.68     |                             | 2100   | 599.128 | 0.0829   |
|                              |          |          |                     | 1641   | 1.2000    | 0.70     |                             | 2130   | 632.908 | 0.1030   |
|                              |          |          |                     | 1645   | 1.5000    | 0.80     |                             | 2141   | 640.360 | 0.1106   |
|                              |          |          |                     | 1647   | 1.5000    | 0.85     |                             | 2200   | 643.350 | 0.1238   |
|                              |          |          |                     | 1650   | 1.8000    | 0.94     |                             | 2211   | 643.350 | 0.1315   |
|                              |          |          |                     | 1652   | 1.2000    | 0.98     |                             | 2230   | 638.860 | 0.1448   |
|                              |          |          |                     | 1654   | 0.3000    | 0.99     |                             | 2311   | 604.938 | 0.1725   |
|                              |          |          |                     | 1700   | 0.3000    | 1.02     |                             | 2400   | 535.398 | 0.2028   |
|                              |          |          |                     | 1703   | 0.2000    | 1.03     | 3- 9                        | 30     | 480.090 | 0.2194   |
|                              |          |          |                     | 1710   | 0.0       | 1.03     |                             | 100    | 419.958 | 0.2341   |
|                              |          |          |                     | 1713   | 0.2000    | 1.04     |                             | 130    | 357.580 | 0.2468   |
|                              |          |          |                     | 1714   | 0.0       | 1.04     |                             | 200    | 301.780 | 0.2575   |
|                              |          |          |                     | 1715   | 0.6000    | 1.05     |                             | 230    | 254.150 | 0.2666   |

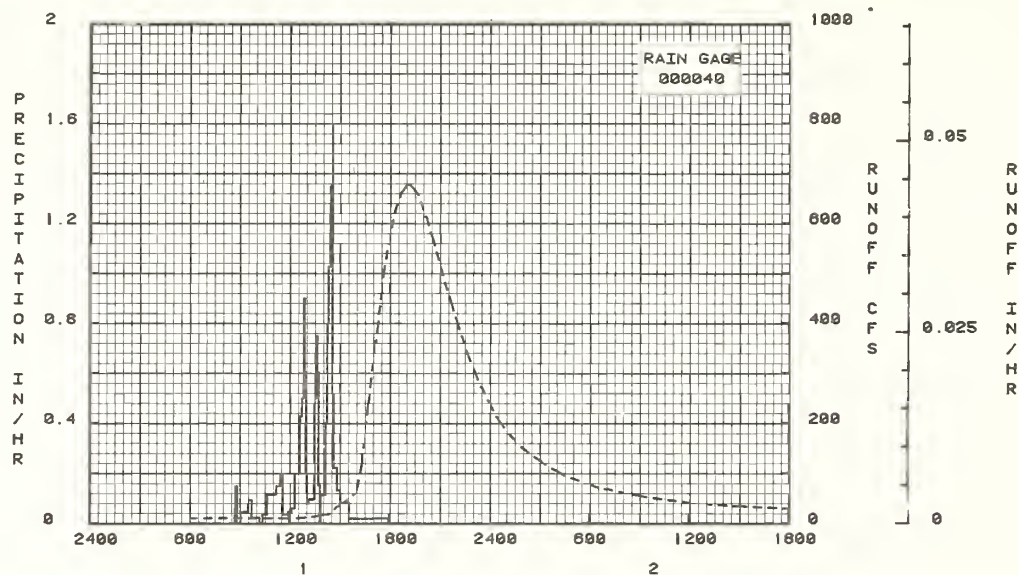
| 1974                                   |          |          | SELECTED RUNOFF EVENT |        |           | CEICKASHA, OKLAHOMA |        |        | WATESEED 311 NEAR POCASSET |          |  |
|--|----------|----------|-----------------------|--------|-----------|---------------------|--------|--------|----------------------------|----------|--|
| ANTECEDENT CONDITIONS                  |          |          | RAINFALL              |        |           | RUNOFF              |        |        |                            |          |  |
| Date                                   | Rainfall | Runoff   | Date                  | Time   | Intensity | Acc.                | Date   | Time   | Rate                       | Acc.     |  |
| Mo-Day                                 | (inches) | (inches) | Mo-Day                | of Day | (in/hr)   | (inches)            | Mo-Day | of Day | (cfs)                      | (inches) |  |
| EVENT OF MARCH 8 - 9, 1974 (CONTINUED) |          |          |                       |        |           |                     |        |        |                            |          |  |
|  |          |          | 3- 8                  | 1716   | 4.2010    | 1.12                | 3- 9   | 300    | 216.600                    | 0.2743   |  |
|  |          |          |                       | 1719   | 1.0000    | 1.17                |        | 330    | 184.290                    | 0.2808   |  |
|  |          |          |                       | 1722   | 0.6000    | 1.20                |        | 406    | 155.100                    | 0.2874   |  |
|  |          |          |                       | 1806   | 0.6273    | 1.66                |        | 500    | 122.290                    | 0.2956   |  |
|  |          |          |                       | 1810   | 0.7500    | 1.71                |        | 630    | 84.980                     | 0.3057   |  |
|  |          |          |                       | 1811   | 1.2000    | 1.73                |        | 830    | 59.880                     | 0.3152   |  |
|  |          |          |                       | 1813   | 0.3000    | 1.74                |        | 1100   | 43.180                     | 0.3236   |  |
|  |          |          |                       | 1816   | 0.4000    | 1.76                |        | 1400   | 33.050                     | 0.3310   |  |
|  |          |          |                       | 1823   | 0.0       | 1.76                |        | 1730   | 26.570                     | 0.3378   |  |
|  |          |          |                       | 1834   | 0.0545    | 1.77                |        | 2030   | 22.540                     | 0.3426   |  |
|  |          |          |                       | 1838   | 0.0       | 1.77                |        | 2200   | 19.170                     | 0.3447   |  |
|  |          |          |                       |        |           |                     |        | 2400   | 17.290                     | 0.3470   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



| 1974 SELECTED RUNOFF EVENT   |                  |          | CHICKASAW, OKLAHOMA WATERSHED 311 NEAR POCASSET |                  |           |          |        |        |         |          |
|--|------------------|----------|---|------------------|-----------|----------|--------|--------|---------|----------|
| ANTECEDENT CONDITIONS  |                  |          | RAINFALL  |                  |           | RUNOFF   |        |        |         |          |
| Date   | Rainfall         | Runoff   | Date  | Time             | Intensity | Acc.     | Date   | Time   | Rate    | Acc.     |
| Mo-Day   | (inches)         | (inches) | Mo-Day  | of Day           | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)   | (inches) |
| EVENT OF MAY 1 - 4, 1974   |                  |          |   |                  |           |          |        |        |         |          |
| 5- 1   | RG 000040<br>0.0 | 0.005    | 5- 1  | RG 000040<br>845 | 0.0       | 0.0      | 5- 1   | 600    | 10.620  | 0.0      |
|  |                  |          |   | 853              | 0.1500    | 0.02     |        | 1200   | 9.580   | 0.0039   |
|  |                  |          |   | 904              | 0.0       | 0.02     |        | 1230   | 9.830   | 0.0043   |
|  |                  |          |   | 931              | 0.0444    | 0.04     |        | 1330   | 14.100  | 0.0050   |
|  |                  |          |   | 944              | 0.0923    | 0.06     |        | 1423   | 18.850  | 0.0060   |
| WATERSHED CONDITIONS:<br>From a revised 1974 survey;<br>sowed crop - 37%; row crop<br>2%; alfalfa - 2%; pasture<br>and range - 52%; and miscel-<br>laneous - 7%. |                  |          |   | 1013             | 0.0207    | 0.07     |        | 1448   | 31.780  | 0.0067   |
|  |                  |          |   | 1024             | 0.0       | 0.07     |        | 1530   | 47.220  | 0.0085   |
|  |                  |          |   | 1041             | 0.0353    | 0.08     |        | 1600   | 61.650  | 0.0103   |
|  |                  |          |   | 1112             | 0.1161    | 0.14     |        | 1611   | 85.690  | 0.0111   |
|  |                  |          |   | 1128             | 0.1500    | 0.18     |        | 1618   | 108.230 | 0.0119   |
|  |                  |          |   | 1137             | 0.2000    | 0.21     |        | 1623   | 136.360 | 0.0125   |
|  |                  |          |   | 1156             | 0.0316    | 0.22     |        | 1630   | 169.000 | 0.0137   |
|  |                  |          |   | 1209             | 0.0462    | 0.23     |        | 1636   | 202.860 | 0.0149   |
|  |                  |          |   | 1219             | 0.0600    | 0.24     |        | 1641   | 227.870 | 0.0161   |
|  |                  |          |   | 1237             | 0.2000    | 0.30     |        | 1648   | 257.150 | 0.0179   |
|  |                  |          |   | 1244             | 0.4286    | 0.35     |        | 1653   | 290.070 | 0.0194   |
|  |                  |          |   | 1250             | 0.5000    | 0.40     |        | 1700   | 322.500 | 0.0218   |
|  |                  |          |   | 1254             | 0.9000    | 0.46     |        | 1706   | 351.810 | 0.0240   |
|  |                  |          |   | 1259             | 0.6000    | 0.51     |        | 1718   | 403.958 | 0.0289   |
|  |                  |          |   | 1302             | 0.2000    | 0.52     |        | 1730   | 461.810 | 0.0345   |
|  |                  |          |   | 1310             | 0.0750    | 0.53     |        | 1741   | 514.860 | 0.0404   |
|  |                  |          |   | 1329             | 0.0947    | 0.56     |        | 1800   | 577.540 | 0.0517   |
|  |                  |          |   | 1335             | 0.5000    | 0.61     |        | 1818   | 625.490 | 0.0634   |
|  |                  |          |   | 1339             | 0.7500    | 0.66     |        | 1836   | 658.388 | 0.0760   |
|  |                  |          |   | 1345             | 0.6000    | 0.72     |        | 1900   | 676.648 | 0.0934   |
|  |                  |          |   | 1349             | 0.1500    | 0.73     |        | 1911   | 676.648 | 0.1015   |
|  |                  |          |   | 1353             | 0.0       | 0.73     |        | 1941   | 655.370 | 0.1232   |
|  |                  |          |   | 1409             | 0.1125    | 0.76     |        | 2011   | 609.320 | 0.1438   |
|  |                  |          |   | 1415             | 0.4000    | 0.80     |        | 2041   | 554.888 | 0.1628   |
|  |                  |          |   | 1418             | 0.8000    | 0.84     |        | 2111   | 494.668 | 0.1799   |
|  |                  |          |   | 1425             | 1.0286    | 0.96     |        | 2141   | 438.770 | 0.1951   |
|  |                  |          |   | 1429             | 1.3500    | 1.05     |        | 2211   | 387.020 | 0.2086   |
|  |                  |          |   | 1432             | 1.6000    | 1.13     |        | 2241   | 337.020 | 0.2204   |
|  |                  |          |   | 1439             | 0.5143    | 1.19     |        | 2318   | 285.860 | 0.2329   |
|  |                  |          |   | 1450             | 0.2182    | 1.23     |        | 2400   | 238.430 | 0.2449   |
|  |                  |          |   | 1504             | 0.1286    | 1.26     | 5- 2   | 36     | 202.860 | 0.2535   |
|  |                  |          |   | 1534             | 0.0800    | 1.30     |        | 118    | 173.190 | 0.2621   |
|  |                  |          |   | 1758             | 0.0167    | 1.34     |        | 200    | 149.520 | 0.2695   |
|  |                  |          |   |                  |           |          |        | 300    | 124.460 | 0.2784   |
|  |                  |          |   |                  |           |          |        | 430    | 94.370  | 0.2891   |
|  |                  |          |   |                  |           |          |        | 630    | 70.900  | 0.2999   |
|  |                  |          |   |                  |           |          |        | 900    | 54.180  | 0.3101   |
|  |                  |          |   |                  |           |          |        | 1200   | 39.800  | 0.3193   |
|  |                  |          |   |                  |           |          |        | 1500   | 33.480  | 0.3265   |
|  |                  |          |   |                  |           |          |        | 1900   | 28.120  | 0.3345   |
|  |                  |          |   |                  |           |          | 5- 3   | 2400   | 23.960  | 0.3430   |
|  |                  |          |   |                  |           |          |        | 600    | 19.170  | 0.3514   |
|  |                  |          |   |                  |           |          |        | 1200   | 15.220  | 0.3582   |
|  |                  |          |   |                  |           |          |        | 1800   | 12.510  | 0.3636   |
|  |                  |          |   |                  |           |          |        | 2400   | 10.620  | 0.3681   |
|  |                  |          |   |                  |           |          | 5- 4   | 1200   | 8.840   | 0.3757   |
|  |                  |          |   |                  |           |          |        | 2400   | 7.835   | 0.3823   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



EVENT OF MAY 1 - 4, 1974  
CRICKASRA, OKLAHOMA WATERSHED 311 NEAR POCASSET

1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED 311 NEAR POCASSET

| ANTECEDENT CONDITIONS          |          |          | RAINFALL  |        |           | RUNOFF   |        |          |
|--------------------------------|----------|----------|-----------|--------|-----------|----------|--------|----------|
| Date                           | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time     |
| Mo-Day                         | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day   |
|                                |          |          |           |        |           |          |        | Rate     |
|                                |          |          |           |        |           |          |        | (cfs)    |
|                                |          |          |           |        |           |          |        | Acc.     |
|                                |          |          |           |        |           |          |        | (inches) |
| EVENT OF MAY 31 - JUNE 2, 1974 |          |          |           |        |           |          |        |          |
| RG 000040                      |          |          | RG 000040 |        |           |          |        |          |
| 5-31                           | 0.0      | 0.0      | 5-31      | 244    | 0.0       | 0.0      | 5-31   | 300      |
|                                |          |          |           | 248    | 1.0500    | 0.07     |        | 318      |
|                                |          |          |           | 252    | 1.6500    | 0.18     |        | 330      |
|                                |          |          |           | 256    | 1.2000    | 0.26     |        | 341      |
|                                |          |          |           | 259    | 4.2000    | 0.47     |        | 353      |
|                                |          |          |           | 301    | 2.7000    | 0.56     |        | 406      |
|                                |          |          |           | 304    | 5.6000    | 0.84     |        | 418      |
|                                |          |          |           | 305    | 6.0000    | 0.94     |        | 436      |
|                                |          |          |           | 306    | 6.6000    | 1.05     |        | 500      |
|                                |          |          |           | 307    | 4.8000    | 1.13     |        | 518      |
|                                |          |          |           | 308    | 7.2000    | 1.25     |        | 548      |
|                                |          |          |           | 310    | 3.0000    | 1.35     |        | 553      |
|                                |          |          |           | 313    | 2.6000    | 1.48     |        | 600      |
|                                |          |          |           | 316    | 1.4000    | 1.55     |        | 606      |
|                                |          |          |           | 318    | 2.4000    | 1.63     |        | 611      |
|                                |          |          |           | 321    | 3.8000    | 1.82     |        | 618      |
|                                |          |          |           | 322    | 6.0000    | 1.92     |        | 623      |
|                                |          |          |           | 325    | 1.2000    | 1.98     |        | 630      |
|                                |          |          |           | 331    | 1.1000    | 2.09     |        | 636      |
|                                |          |          |           | 333    | 1.2000    | 2.13     |        | 641      |
|                                |          |          |           | 336    | 1.2000    | 2.19     |        | 648      |
|                                |          |          |           | 342    | 0.9000    | 2.28     |        | 653      |
|                                |          |          |           | 344    | 1.8000    | 2.34     |        | 700      |
|                                |          |          |           | 348    | 0.9000    | 2.40     |        | 706      |
|                                |          |          |           | 351    | 1.0000    | 2.45     |        | 711      |
|                                |          |          |           | 358    | 0.6000    | 2.52     |        | 723      |
|                                |          |          |           | 402    | 0.4500    | 2.55     |        | 736      |
|                                |          |          |           | 424    | 0.0545    | 2.57     |        | 741      |
|                                |          |          |           | 435    | 0.1091    | 2.59     |        | 800      |
|                                |          |          |           | 444    | 0.1333    | 2.61     |        | 830      |

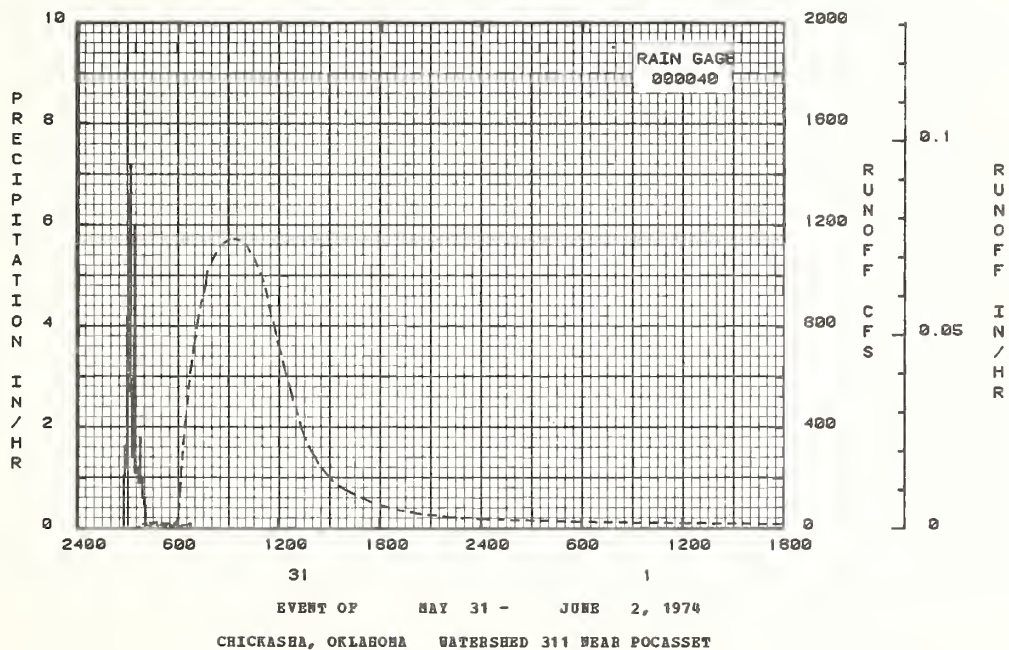
WATERSHED CONDITIONS:  
From a revised 1974 survey;  
sowed crop - 37%; row crop  
2%; alfalfa - 2%; pasture  
and range - 52%; and miscel-  
laneous - 7%.

NOTES: To convert runoff in CFS to IH/HR, multiply by 0.0006522.



| 1974 SELECTED RUNOFF EVENT                 |                      |                    | CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET |                |                      |                  |                |                  |
|--|----------------------|--------------------|---|----------------|----------------------|------------------|----------------|------------------|
| ANTECEDENT CONDITIONS                      |                      |                    | RAINFALL  |                |                      | RUNOFF           |                |                  |
| Date<br>Mo-Day                             | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                                  | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day   |
|  |                      |                    |   |                |                      |                  | Rate<br>(cfs)  | Acc.<br>(inches) |
| EVENT OF MAY 31 - JUNE 2, 1974 (CONTINUED) |                      |                    |   |                |                      |                  |                |                  |
| 5-31                                       | 506                  | 0.0545             | 2.63  | 5-31           | 900                  | 1143.878         | 0.1675         |                  |
|  | 517                  | 0.0545             | 2.64  |                | 918                  | 1145.808         | 0.1899         |                  |
|  | 528                  | 0.1091             | 2.66  |                | 936                  | 1148.028         | 0.2123         |                  |
|  | 538                  | 0.0600             | 2.67  |                | 1000                 | 1120.868         | 0.2418         |                  |
|  | 600                  | 0.0545             | 2.69  |                | 1030                 | 1064.229         | 0.2774         |                  |
|  | 613                  | 0.0462             | 2.70  |                | 1053                 | 1005.248         | 0.3033         |                  |
|  | 629                  | 0.0750             | 2.72  |                | 1111                 | 942.428          | 0.3223         |                  |
|  | 638                  | 0.0667             | 2.73  |                | 1123                 | 872.810          | 0.3342         |                  |
|  | 644                  | 0.1000             | 2.74  |                | 1141                 | 798.958          | 0.3505         |                  |
|  |                      |                    |   |                | 1153                 | 739.070          | 0.3605         |                  |
|  |                      |                    |   |                | 1206                 | 688.938          | 0.3706         |                  |
|  |                      |                    |   |                | 1218                 | 632.908          | 0.3793         |                  |
|  |                      |                    |   |                | 1236                 | 563.340          | 0.3910         |                  |
|  |                      |                    |   |                | 1248                 | 508.090          | 0.3979         |                  |
|  |                      |                    |   |                | 1306                 | 450.229          | 0.4073         |                  |
|  |                      |                    |   |                | 1318                 | 401.520          | 0.4129         |                  |
|  |                      |                    |   |                | 1336                 | 351.810          | 0.4203         |                  |
|  |                      |                    |   |                | 1353                 | 307.178          | 0.4263         |                  |
|  |                      |                    |   |                | 1418                 | 260.158          | 0.4341         |                  |
|  |                      |                    |   |                | 1448                 | 216.600          | 0.4418         |                  |
|  |                      |                    |   |                | 1511                 | 187.770          | 0.4469         |                  |
|  |                      |                    |   |                | 1548                 | 157.510          | 0.4538         |                  |
|  |                      |                    |   |                | 1630                 | 134.100          | 0.4605         |                  |
|  |                      |                    |   |                | 1730                 | 104.280          | 0.4682         |                  |
|  |                      |                    |   |                | 1830                 | 82.200           | 0.4743         |                  |
|  |                      |                    |   |                | 2000                 | 61.650           | 0.4814         |                  |
|  |                      |                    |   |                | 2200                 | 46.190           | 0.4884         |                  |
|  |                      |                    |   |                | 2400                 | 37.940           | 0.4939         |                  |
|  |                      |                    |   | 6- 1           | 600                  | 28.120           | 0.5068         |                  |
|  |                      |                    |   |                | 1200                 | 22.540           | 0.5167         |                  |
|  |                      |                    |   |                | 1800                 | 17.910           | 0.5246         |                  |
|  |                      |                    |   |                | 2400                 | 13.830           | 0.5308         |                  |
|  |                      |                    |   | 6- 2           | 1200                 | 9.830            | 0.5401         |                  |
|  |                      |                    |   |                | 2400                 | 7.250            | 0.5468         |                  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



## CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER

LOCATION: Watershed 515 lies northeast of Amber, in Grady County, Okla.; tributary of West Bitter Creek, Washita River; Red River Basin. GAGING STATION--At county road bridge, NE1/4 sec. 20, T. 8 N., E. 6 W., lat. 35 deg. 09 min. 37 sec.; long. 97 deg. 51 min. 06 sec.

AREA: 1620.00 acres 2.53 sq. miles

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER |       |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|--|-------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May  | Jun   | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 0.11              | 1.59  | 3.67   | 3.16  | 3.44   | 1.12  | 2.16                                      | 4.39  | 2.61    | 4.75  | 1.38     | 1.64  | 30.02  |       |        |       |        |      |
|   | Q | 0.048             | 0.096 | 1.290  | 0.226 | 0.558  | 0.077 | 0.014                                     | 0.435 | 0.013   | 0.284 | 0.312    | 0.086 | 3.438  |       |        |       |        |      |
| STA AV  | P | 1.62              | 1.08  | 4.71   | 2.90  | 4.25   | 3.13  | 2.18                                      | 3.56  | 4.41    | 3.85  | 1.83     | 0.96  | 34.44  |       |        |       |        |      |
|   | Q | 0.251             | 0.097 | 1.557  | 0.469 | 0.735  | 1.064 | 0.035                                     | 0.307 | 0.055   | 0.252 | 0.342    | 0.079 | 5.244  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |  |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                                      |       | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date   | Vol.  | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 3-10              | 0.068 | 3-10   | 0.067 | 3-10   | 0.130 | 3-10                                      | 0.337 | 3-10    | 0.450 | 3-10     | 0.529 | 3- 8   | 0.765 | 3- 8   | 1.196 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |  |       |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6- 2              | 0.126 | 6- 2   | 0.114 | 6- 2   | 0.207 | 6- 2                                      | 0.459 | 6- 2    | 0.678 | 6- 2     | 0.865 | 6- 1   | 1.051 | 5-30   | 2.318 |        |      |
|   |   | 1973              |       | 1973   |       | 1973   |       | 1973                                      |       | 1973    |       | 1973     |       | 1973   |       | 1973   |       |        |      |

NOTES: Watershed Conditions: The land use in 1974 was sowed crop - 22%; row crop - 9%; timbered pasture - 6%; timber - 3%; pasture - 51%; farmsteads - 3%; farm ponds - 3%; farm roads - 2% and highways - 1%. Precipitation Data obtained from a Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. Precipitation records began Oct. 1961. Runoff records began August 1972. STA AV based on 2 yr (1973-1974) record period. For long-time precipitation records, see National Weather Service records at Chickasha, OK.

| 1974   | DAILY PRECIPITATION (inches) |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER |      |      |      |      |      |  |
|--------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|--|
| Day    | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |
| 1      | 0.01                         | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.09 | 0.01 | 0.0  | 0.0  | 0.0  |  |
| 2      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.38 | 0.0  | 0.44 | 0.0  |  |
| 3      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.12 | 0.0  | 0.0  | 0.31 | 0.0  |  |
| 4      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.39   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 5      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 |  |
| 6      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.01 |  |
| 7      | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.05 | 0.05 | 0.0  |  |
| 8      | 0.0                          | 0.0  | 2.04 | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 9      | 0.08                         | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 1.48 | 0.0  | 0.0  | 0.36 | 0.0  |  |
| 10     | 0.0                          | 0.0  | 1.38 | 0.02 | 0.0  | 0.0  | 0.0  | 1.85 | 0.0  | 0.0  | 0.17 | 0.78 |  |
| 11     | 0.0                          | 0.0  | 0.0  | 1.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 |  |
| 12     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |  |
| 13     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  |  |
| 14     | 0.0                          | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.14 | 0.0  | 0.0  |  |
| 15     | 0.0                          | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.0  | 0.0  | 0.0  |  |
| 16     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 18     | 0.0                          | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 19     | 0.01                         | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.0                          | 0.90 | 0.23 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  |  |
| 21     | 0.0                          | 0.55 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 22     | 0.0                          | 0.0  | 0.01 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 23     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 24     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01   | 0.0  | 1.10 | 1.27 | 0.0  | 0.0  |  |
| 25     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.68 | 0.0  | 0.0  | 0.0  | 0.06 | 0.38 | 0.0  | 0.0  |  |
| 26     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.17 | 0.0  | 0.0  |  |
| 27     | 0.01                         | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  | 0.10 | 0.0  | 0.0  |  |
| 28     | 0.0                          | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.83 | 0.0  | 0.0  |  |
| 29     | 0.0                          | 0.0  | 0.0  | 1.76 | 0.0  | 0.0  | 1.76   | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |  |
| 30     | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.36 | 0.0  | 0.30 |  |
| 31     | 0.0                          | 0.0  | 0.0  | 0.0  | 1.20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 | 0.0  | 0.19 |  |
| TOTAL  | 0.11                         | 1.59 | 3.67 | 3.16 | 3.44 | 1.12 | 2.16   | 4.39 | 2.61 | 4.75 | 1.38 | 1.64 |  |
| STA AV | 1.62                         | 1.08 | 4.71 | 2.90 | 4.25 | 3.13 | 2.18   | 3.56 | 4.41 | 3.85 | 1.83 | 0.96 |  |

NOTES: For daily air temperature in the vicinity, see table for Watershed W-700 (69.007) of this publication. Daily precipitation values Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. STA AV based on 2 yr (1973-1974) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER |        |        |        |        |        |        |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day  | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1  | 0.059  | 0.130  | 0.130  | 0.209  | 19.012 | 0.479  | 0.017  | 0.0    | 0.010  | 0.059  | 3.130  | 0.130  |
| 2  | 0.051  | 0.127  | 0.130  | 0.215  | 8.537  | 0.240  | 0.011  | 0.0    | 0.010  | 0.051  | 4.610  | 0.132  |
| 3  | 0.050  | 0.110  | 0.127  | 0.202  | 2.341  | 0.174  | 0.012  | 0.0    | 0.010  | 0.050  | 3.180  | 0.147  |
| 4  | 0.050  | 0.092  | 0.112  | 0.196  | 1.200  | 0.150  | 0.025  | 0.0    | 0.010  | 0.050  | 2.706  | 0.150  |
| 5  | 0.052  | 0.090  | 0.107  | 0.174  | 0.810  | 0.132  | 0.012  | 0.0    | 0.010  | 0.050  | 1.459  | 0.152  |
| 6  | 0.072  | 0.090  | 0.092  | 0.170  | 0.617  | 0.845  | 0.010  | 0.0    | 0.010  | 0.049  | 0.725  | 0.165  |
| 7  | 0.107  | 0.090  | 0.090  | 0.167  | 0.440  | 0.882  | 0.010  | 0.0    | 0.011  | 0.040  | 0.450  | 0.150  |
| 8  | 0.120  | 0.090  | 22.388 | 0.150  | 0.329  | 0.476  | 0.009  | 0.0    | 0.019  | 0.031  | 0.365  | 0.135  |
| 9  | 0.075  | 0.090  | 13.117 | 0.132  | 0.281  | 0.325  | 0.001  | 2.731  | 0.020  | 0.029  | 0.407  | 0.154  |
| 10   | 0.052  | 0.090  | 31.777 | 0.135  | 0.250  | 0.246  | 0.0    | 22.576 | 0.020  | 0.021  | 0.536  | 0.222  |
| 11   | 0.050  | 0.090  | 9.755  | 3.932  | 0.217  | 0.160  | 0.0    | 2.906  | 0.020  | 0.020  | 0.475  | 0.387  |
| 12   | 0.057  | 0.090  | 2.815  | 0.532  | 0.174  | 0.132  | 0.0    | 1.170  | 0.020  | 0.021  | 0.362  | 0.334  |
| 13   | 0.107  | 0.090  | 1.322  | 0.295  | 0.150  | 0.130  | 0.0    | 0.404  | 0.020  | 0.029  | 0.311  | 0.315  |
| 14   | 0.145  | 0.090  | 0.954  | 0.206  | 0.132  | 0.127  | 0.0    | 0.120  | 0.020  | 0.030  | 0.232  | 0.281  |
| 15   | 0.150  | 0.090  | 0.955  | 0.171  | 0.130  | 0.112  | 0.0    | 0.071  | 0.021  | 0.030  | 0.220  | 0.250  |
| 16   | 0.152  | 0.090  | 0.851  | 0.152  | 0.127  | 0.110  | 0.0    | 0.060  | 0.029  | 0.030  | 0.220  | 0.221  |
| 17   | 0.167  | 0.092  | 0.725  | 0.150  | 0.112  | 0.107  | 0.0    | 0.050  | 0.030  | 0.029  | 0.220  | 0.205  |
| 18   | 0.167  | 0.105  | 0.567  | 0.150  | 0.107  | 0.090  | 0.0    | 0.040  | 0.030  | 0.021  | 0.217  | 0.215  |
| 19   | 0.152  | 0.092  | 0.407  | 0.150  | 0.092  | 0.071  | 0.0    | 0.030  | 0.031  | 0.020  | 0.202  | 0.202  |
| 20   | 0.147  | 0.122  | 0.355  | 0.150  | 0.090  | 0.060  | 0.0    | 0.021  | 0.039  | 0.020  | 0.196  | 0.200  |
| 21   | 0.132  | 3.131  | 0.350  | 0.147  | 0.090  | 0.051  | 0.0    | 0.019  | 0.039  | 0.020  | 0.174  | 0.196  |
| 22   | 0.127  | 0.442  | 0.341  | 0.130  | 0.090  | 0.049  | 0.0    | 0.011  | 0.031  | 0.020  | 0.170  | 0.174  |
| 23   | 0.112  | 0.261  | 0.285  | 0.112  | 0.090  | 0.041  | 0.0    | 0.010  | 0.032  | 0.034  | 0.167  | 0.167  |
| 24   | 0.110  | 0.206  | 0.254  | 0.110  | 0.092  | 0.039  | 0.0    | 0.010  | 0.050  | 0.116  | 0.152  | 0.152  |
| 25   | 0.112  | 0.200  | 0.250  | 0.112  | 0.105  | 0.031  | 0.0    | 0.010  | 0.066  | 0.120  | 0.147  | 0.150  |
| 26   | 0.127  | 0.194  | 0.250  | 0.130  | 0.092  | 0.029  | 0.0    | 0.010  | 0.061  | 0.480  | 0.132  | 0.152  |
| 27   | 0.130  | 0.154  | 0.250  | 0.145  | 0.090  | 0.021  | 0.0    | 0.010  | 0.059  | 0.052  | 0.130  | 0.167  |
| 28   | 0.130  | 0.132  | 0.250  | 0.127  | 0.086  | 0.019  | 0.0    | 0.010  | 0.051  | 2.071  | 0.130  | 0.170  |
| 29   | 0.130  |        | 0.254  | 3.105  | 0.062  | 0.011  | 0.782  | 0.010  | 0.051  | 0.365  | 0.130  | 0.170  |
| 30   | 0.130  |        | 0.272  | 3.986  | 0.051  | 0.011  | 0.107  | 0.010  | 0.059  | 6.821  | 0.130  | 0.184  |
| 31   | 0.130  |        | 0.247  |        | 2.869  |        | 0.007  | 0.010  |        | 8.958  |        | 0.126  |
| MEAN   | 0.1084 | 0.2383 | 2.8962 | 0.5249 | 1.2539 | 0.1784 | 0.0324 | 0.9774 | 0.0297 | 0.6367 | 0.7230 | 0.1923 |
| INCHES   | 0.048  | 0.096  | 1.290  | 0.226  | 0.558  | 0.077  | 0.014  | 0.435  | 0.013  | 0.284  | 0.312  | 0.086  |
| STA AV   | 0.251  | 0.097  | 1.557  | 0.469  | 0.735  | 1.064  | 0.035  | 0.307  | 0.055  | 0.252  | 0.342  | 0.079  |

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.01469. Discharge rating curve estimated for flows greater than 60 CFS. STA AV based on 2 yr (1973-1974) record period.

## CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 46 sec. N.; Long. 97 deg. 54 min. 39 sec. W.

AREA: 17.83 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CHICKASHA, OKLAHOMA WATERSHED C-1 |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|-----------------------------------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                               | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 0.12              | 1.67  | 2.85   | 4.15  | 2.81    | 0.66                              | 1.60                                      | 4.17  | 3.42    | 4.90  | 1.27     | 1.59  | 29.21  |       |        |       |        |      |
|   | Q | 0.0               | 0.001 | 0.034  | 0.036 | 0.072   | 0.0                               | 0.000                                     | 0.225 | 0.0     | 0.188 | 0.038    | 0.003 | 0.596  |       |        |       |        |      |
| STA AV  | P | 0.92              | 1.09  | 2.14   | 3.03  | 3.85    | 2.45                              | 1.83                                      | 3.40  | 4.10    | 3.18  | 1.30     | 0.94  | 28.23  |       |        |       |        |      |
|   | Q | 0.095             | 0.002 | 0.191  | 0.147 | 0.286   | 0.200                             | 0.037                                     | 0.325 | 0.301   | 0.468 | 0.215    | 0.053 | 2.320  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                   |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                   | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                              | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 3-10              | 0.048 | 8-10   | 0.030 | 8-10    | 0.060                             | 8-10                                      | 0.160 | 8-10    | 0.207 | 8- 9     | 0.225 | 8- 9   | 0.225 | 8- 3   | 0.225 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                   |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 5-24              | 0.116 | 3-10   | 0.085 | 3-10    | 0.164                             | 10-30                                     | 0.459 | 10- 2   | 0.814 | 10-30    | 1.504 | 10-30  | 2.662 | 10-26  | 2.925 |        |      |
|   |   | 1973              |       | 1973   |       | 1973    |                                   | 1972                                      |       | 1971    |       | 1972     |       | 1972   |       | 1972   |       |        |      |

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during late May. Tillage during the growing season consisted of rotary hoeing and cultivating. Cotton harvested late Nov. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. Cotton harvested last of December. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CHICKASHA, OKLAHOMA WATERSHED C-1 |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                   | Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 1.01 | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.57 | 0.0  | 0.20 | 0.0  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.05 | 0.0  | 0.0  | 0.46 | 0.0  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.42 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.11 |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.10 | 0.04 | 0.0  |
| 8                                 | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9                                 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.53 | 0.0  | 0.0  | 0.35 | 0.0  |
| 10                                | 0.0  | 0.0  | 0.0  | 1.85 | 0.0  | 0.0  | 0.0  | 0.0  | 1.50 | 0.0  | 0.0  | 0.20 | 0.87 |
| 11                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.45 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  |
| 15                                | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.82 | 0.0  | 0.0  | 0.0  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |
| 18                                | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  |
| 20                                | 0.0  | 0.92 | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |
| 21                                | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.29 | 1.26 | 0.0  | 0.0  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.94 | 0.0  | 0.0  | 0.0  | 0.18 | 0.54 | 0.0  | 0.0  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  | 0.09 | 0.0  | 0.0  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.64 | 0.0  | 0.0  | 0.0  | 1.18 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.34 | 0.0  | 0.17 |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.75 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.22 |
| TOTAL                             |      | 0.12 | 1.67 | 2.85 | 4.15 | 2.81 | 0.66 | 1.60 | 4.17 | 3.42 | 4.90 | 1.27 | 1.59 |
| STA AV                            |      | 0.92 | 1.09 | 2.14 | 3.03 | 3.85 | 2.45 | 1.83 | 3.40 | 4.10 | 3.18 | 1.30 | 0.94 |

NOTES: Values obtained from one recording rain gage, No. 173. STA AV based on 10 yr (1965-74) record period.

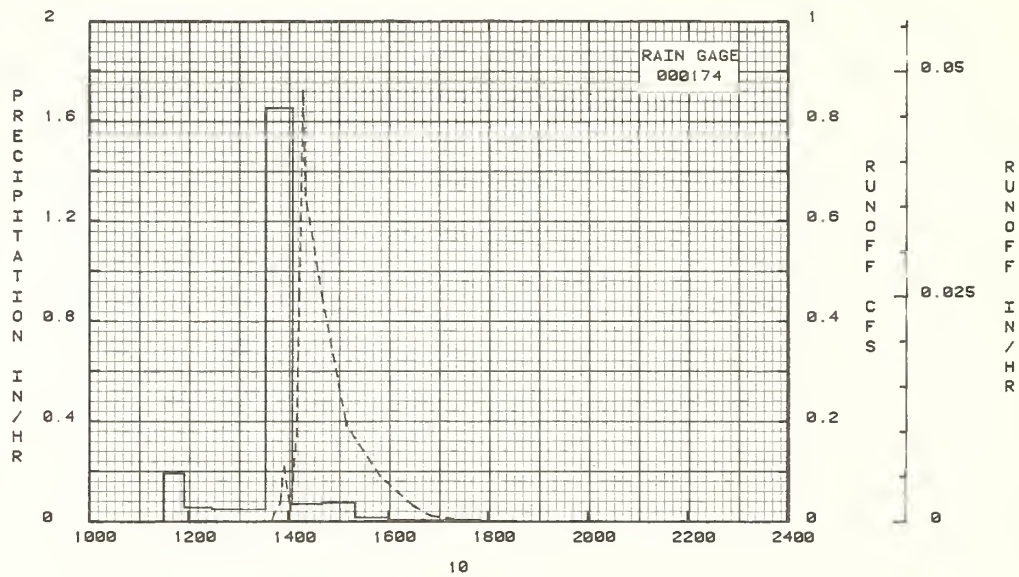


| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-1 |       |       |        |        |        |       |       |        |       |        |        |        |
|---|-------|-------|--------|--------|--------|-------|-------|--------|-------|--------|--------|--------|
| Day   | Jan   | Feb   | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec    |
| 1   | 0.0   | 0.0   | 0.0    | 0.0    | 0.050  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.002  | 0.0    |
| 2   | 0.0   | 0.0   | 0.0    | 0.0    | 0.004  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.003  | 0.0    |
| 3   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.013  | 0.0    |
| 4   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.005  | 0.0    |
| 5   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0    |
| 6   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 7   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 8   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 9   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.005  | 0.0   | 0.0    | 0.0 T  | 0.0    |
| 10  | 0.0   | 0.0   | 0.026  | 0.0    | 0.0    | 0.0   | 0.0   | 0.163  | 0.0   | 0.0    | 0.004  | 0.001  |
| 11  | 0.0   | 0.0   | 0.0    | 0.014  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.001  | 0.001  |
| 12  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 13  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 14  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 15  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 16  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 17  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 18  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 19  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 20  | 0.0   | 0.0 T | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 21  | 0.0   | 0.0 T | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 22  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 23  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 24  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 25  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    |
| 26  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0 T  | 0.0    | 0.0    |
| 27  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 28  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.043  | 0.0    | 0.0    |
| 29  | 0.0   | 0.0   | 0.0    | 0.010  | 0.0    | 0.0   | 0.0 T | 0.0    | 0.0   | 0.004  | 0.0    | 0.0    |
| 30  | 0.0   | 0.0   | 0.0    | 0.003  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.050  | 0.0    | 0.0    |
| 31  | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.044  | 0.0 T  | 0.0    |
| MEAN  | 0.0   | 0.0   | 0.0008 | 0.0009 | 0.0017 | 0.0   | 0.0   | 0.0054 | 0.0   | 0.0045 | 0.0009 | 0.0001 |
| INCRS   | 0.0   | 0.001 | 0.034  | 0.036  | 0.072  | 0.0   | 0.000 | 0.225  | 0.0   | 0.188  | 0.038  | 0.003  |
| STA AV  | 0.095 | 0.002 | 0.191  | 0.147  | 0.286  | 0.200 | 0.037 | 0.325  | 0.301 | 0.468  | 0.215  | 0.053  |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334922. STA AV based on 10 yr (1965-74) record period.

| 1974                         | SELECTED RUNOFF EVENT |          |           | CHICKASAW, OKLAHOMA |           |          | WATERSHED C-1 |        |       |          |
|------------------------------|-----------------------|----------|-----------|---------------------|-----------|----------|---------------|--------|-------|----------|
| ANTECEDENT CONDITIONS        |                       |          | RAINFALL  |                     |           | RUNOFF   |               |        |       |          |
| Date                         | Rainfall              | Runoff   | Date      | Time                | Intensity | Acc.     | Date          | Time   | Rate  | Acc.     |
| Mo-Day                       | (inches)              | (inches) | Mo-Day    | of Day              | (in/hr)   | (inches) | Mo-Day        | of Day | (cfs) | (inches) |
| EVENT OF MARCH 10, 1974      |                       |          |           |                     |           |          |               |        |       |          |
| RG 000174                    |                       |          | RG 000174 |                     |           |          |               |        |       |          |
| 3-10                         | 0.53                  | 0.0      | 3-10      | 1130                | 0.0       | 0.0      | 3-10          | 1330   | 0.0   | 0.0      |
|                              |                       |          |           | 1155                | 0.1920    | 0.08     |               | 1332   | 0.001 | 0.0      |
|                              |                       |          |           | 1228                | 0.0545    | 0.11     |               | 1340   | 0.002 | 0.0000   |
|                              |                       |          |           | 1333                | 0.0462    | 0.16     |               | 1345   | 0.024 | 0.0001   |
|                              |                       |          |           | 1405                | 1.6500    | 1.04     |               | 1351   | 0.041 | 0.0002   |
| WATERSHED CONDITIONS:        |                       |          |           |                     |           |          |               |        |       |          |
| 100% cultivation, continuous |                       |          |           | 1440                | 0.0686    | 1.08     |               | 1355   | 0.109 | 0.0005   |
| dry land cotton. Chiseled    |                       |          |           | 1520                | 0.0750    | 1.13     |               | 1403   | 0.016 | 0.0010   |
| 10-14 inches deep about      |                       |          |           | 1600                | 0.0150    | 1.14     |               | 1410   | 0.168 | 0.0016   |
| March 1.                     |                       |          |           | 1750                | 0.0055    | 1.15     |               | 1413   | 0.454 | 0.0024   |
|                              |                       |          |           |                     |           |          |               | 1417   | 0.855 | 0.0049   |
|                              |                       |          |           |                     |           |          |               | 1420   | 0.648 | 0.0070   |
|                              |                       |          |           |                     |           |          |               | 1440   | 0.454 | 0.0172   |
|                              |                       |          |           |                     |           |          |               | 1510   | 0.191 | 0.0262   |
|                              |                       |          |           |                     |           |          |               | 1550   | 0.093 | 0.0314   |
|                              |                       |          |           |                     |           |          |               | 1630   | 0.028 | 0.0337   |
|                              |                       |          |           |                     |           |          |               | 1652   | 0.010 | 0.0341   |
|                              |                       |          |           |                     |           |          |               | 1740   | 0.001 | 0.0343   |
|                              |                       |          |           |                     |           |          |               | 1830   | 0.0   | 0.0343   |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.



## CHICKASHA, OKLAHOMA WATERSHED C-2

LOCATION: Grady Connty, Oklahoma; SR 1/4, sec. 4, R. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin. Lat. 35 deg. 06 min. 25 sec. N.; Long. 98 deg. 02 min. 34 sec. W.

ANRA: 32.54 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |                        |       |             |       |              |       | CRICKASHA, OKLAHOMA                                    |       |           |               | WATERSHED C-2 |            |           |             |           |             |      |
|---|------------------------|-------|-------------|-------|--------------|-------|--|-------|-----------|---------------|---------------|------------|-----------|-------------|-----------|-------------|------|
|   |                        | Jan   | Feb         | Mar   | Apr          | May   | Jun  | Jul   | Aug       | Sep           | Oct           | Nov        | Dec       | Annual      |           |             |      |
| 1974  | P                      | 0.12  | 1.86        | 4.33  | 3.43         | 6.04  | 1.67   |       |           |               |               |            |           |             |           |             |      |
|   | Q                      | 0.0   | 0.016       | 0.735 | 0.003        | 1.005 | 0.001  |       |           |               |               |            |           |             |           |             |      |
| STA AV  | P                      | 0.77  | 1.01        | 1.86  | 2.83         | 3.69  | 2.91   | 1.81  | 2.49      | 3.57          | 2.28          | 1.64       | 0.83      | 25.68       |           |             |      |
|   | Q                      | 0.0   | 0.001       | 0.066 | 0.019        | 0.144 | 0.066  | 0.0   | 0.004     | 0.006         | 0.020         | 0.0        | 0.015     | 0.340       |           |             |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |                        |       |             |       |              |       |  |       |           |               |               |            |           |             |           |             |      |
|   | Maximum Discharge Date | Rate  | 1 Hour Date | Vol.  | 2 Hours Date | Vol.  | Maximum Volume for Selected Time Interval 6 Hours Date |       | Vol.      | 12 Hours Date | Vol.          | 1 Day Date | Vol.      | 2 Days Date | Vol.      | 8 Days Date | Vol. |
| 1974  | 5-31                   | 0.264 | 5-31        | 0.234 | 5-31         | 0.389 | 5-31   | 0.628 | 5-31      | 0.746         | 5-31          | 0.782      | 5-31      | 0.782       | 5-29      | 0.783       |      |
| MAXIMUMS FOR PERIOD OF RECORD   |                        |       |             |       |              |       |  |       |           |               |               |            |           |             |           |             |      |
|   | 5-31 1974              | 0.264 | 5-31 1974   | 0.234 | 5-31 1974    | 0.389 | 5-31 1974  | 0.628 | 5-31 1974 | 0.746         | 5-31 1974     | 0.782      | 5-31 1974 | 0.782       | 5-29 1974 | 0.783       |      |

NOTES: Watershed conditions: 100% cropland. Entire watershed seeded to wheat in the fall of 1973 and harvested in mid-June 1974. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighing type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. Station discontinued July 1, 1974. STA AV are for 1962-1974 record period, part-year records included. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |  | CHICKASHA, OKLAHOMA WATERSHED C-2 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.64 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.71 | 0.0  | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.66 | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 8                                 | 0.0  | 0.0  | 2.29 | 0.0  | 0.0  | 0.05 | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 9                                 | 0.07 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.71 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.32 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 15                                | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 18                                | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 19                                | 0.02 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 20                                | 0.0  | 1.05 | 0.25 | 0.03 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 21                                | 0.0  | 0.71 | 0.0  | 0.0  | 0.41 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.85 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 27                                | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 1.99 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 3.00 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |                                   |  |
| TOTAL                             | 0.12 | 1.86 | 4.33 | 3.43 | 6.04 | 1.67 |      |      |      |      |      |      |  |                                   |  |
| STA AV                            | 0.77 | 1.01 | 1.86 | 2.83 | 3.69 | 2.91 | 1.81 | 2.49 | 3.57 | 2.28 | 1.64 | 0.83 |  |                                   |  |

NOTES: Values obtained from one weighing type rain gage, No. 174. STA AV are for 1962-74, part-year records included. Watershed discontinued July 1, 1974.

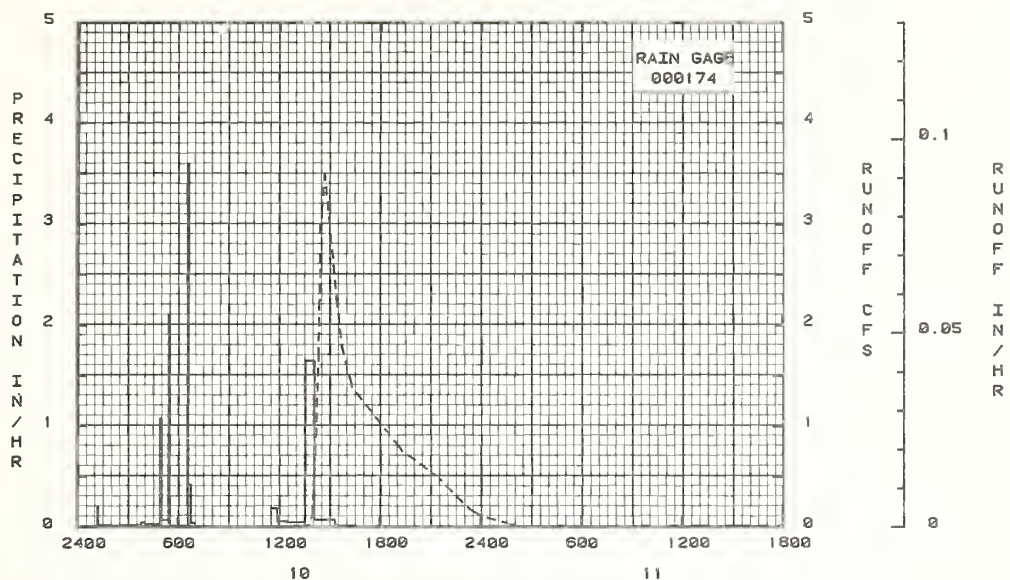
| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED C-2 |     |        |        |        |        |        |     |       |       |       |     |       |
|---|-----|--------|--------|--------|--------|--------|-----|-------|-------|-------|-----|-------|
| Day   | Jan | Feb    | Mar    | Apr    | May    | Jun    | Jul | Aug   | Sep   | Oct   | Nov | Dec   |
| 1   | 0.0 | 0.0    | 0.0    | 0.0    | 0.301  | 0.001  | NR  | NR    | NR    | NR    | NR  | NR    |
| 2   | 0.0 | 0.0    | 0.0    | 0.0    | 0.005  | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 3   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 4   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 5   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 6   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.001  | NR  | NR    | NR    | NR    | NR  | NR    |
| 7   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 8   | 0.0 | 0.0    | 0.511  | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 9   | 0.0 | 0.0    | 0.057  | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 10  | 0.0 | 0.0    | 0.430  | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 11  | 0.0 | 0.0    | 0.007  | 0.001  | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 12  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 13  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 14  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 15  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 16  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 17  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 18  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 19  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 20  | 0.0 | 0.001  | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 21  | 0.0 | 0.021  | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 22  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 23  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 24  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 25  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 26  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 27  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 28  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 29  | 0.0 | 0.0    | 0.0    | 0.002  | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 30  | 0.0 | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| 31  | 0.0 | 0.0    | 0.0    | 0.0    | 1.068  | 0.0    | NR  | NR    | NR    | NR    | NR  | NR    |
| MEAN  | 0.0 | 0.0008 | 0.0324 | 0.0001 | 0.0443 | 0.0001 |     |       |       |       |     |       |
| INCHRS  | 0.0 | 0.016  | 0.735  | 0.003  | 1.005  | 0.001  |     |       |       |       |     |       |
| STA AV  | 0.0 | 0.001  | 0.066  | 0.019  | 0.144  | 0.066  | 0.0 | 0.004 | 0.006 | 0.020 | 0.0 | 0.015 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.731458. STA AV are for 1962-74, part-year records included. Watershed discontinued July 1, 1974.

| 1974                         | SELECTED RUNOFF EVENT |          |           |        |           |          | CRICKASRA, OKLAHOMA |        | WATERSHED C-2 |          |  |
|------------------------------|-----------------------|----------|-----------|--------|-----------|----------|---------------------|--------|---------------|----------|--|
| ANTECEDENT CONDITIONS        |                       |          | RAINFALL  |        |           |          | RUNOFF              |        |               |          |  |
| Date                         | Rainfall              | Runoff   | Date      | Time   | Intensity | Acc.     | Date                | Time   | Rate          | Acc.     |  |
| Mo-Day                       | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day              | of Day | (cfs)         | (inches) |  |
| EVENT OF MARCH 10 - 11, 1974 |                       |          |           |        |           |          |                     |        |               |          |  |
| RG 000174                    |                       |          | RG 000174 |        |           |          |                     |        |               |          |  |
| 3-10                         | 0.0                   | 0.0      | 3-10      | 110    | 0.0       | 0.0      | 3-10                | 520    | 0.0           | 0.0      |  |
|                              |                       |          |           | 113    | 0.2000    | 0.01     |                     | 525    | 0.001         | 0.0      |  |
|                              |                       |          |           | 348    | 0.0232    | 0.07     |                     | 529    | 0.007         | 0.0      |  |
|                              |                       |          |           | 400    | 0.0500    | 0.08     |                     | 632    | 0.001         | 0.0002   |  |
|                              |                       |          |           | 455    | 0.0327    | 0.11     |                     | 639    | 0.029         | 0.0002   |  |
| WATERSHED CONDITIONS:        |                       |          |           | 500    | 1.0800    | 0.20     |                     | 720    | 0.010         | 0.0006   |  |
| 100% cropland.               |                       |          |           | 525    | 0.0720    | 0.23     |                     | 1130   | 0.005         | 0.0016   |  |
|                              |                       |          |           | 527    | 2.1000    | 0.30     |                     | 1200   | 0.010         | 0.0017   |  |
|                              |                       |          |           | 633    | 0.0091    | 0.31     |                     | 1347   | 0.017         | 0.0024   |  |
|                              |                       |          |           | 635    | 3.6000    | 0.43     |                     | 1400   | 0.129         | 0.0029   |  |
|                              |                       |          |           | 645    | 0.4200    | 0.50     |                     | 1410   | 0.745         | 0.0051   |  |
|                              |                       |          |           | 700    | 0.0400    | 0.51     |                     | 1420   | 1.700         | 0.0113   |  |
|                              |                       |          |           | 930    | 0.0080    | 0.53     |                     | 1423   | 2.250         | 0.0144   |  |
|                              |                       |          |           | 1130   | 0.0       | 0.53     |                     | 1430   | 3.140         | 0.0239   |  |
|                              |                       |          |           | 1155   | 0.1920    | 0.61     |                     | 1440   | 3.510         | 0.0408   |  |
|                              |                       |          |           | 1228   | 0.0545    | 0.64     |                     | 1500   | 2.960         | 0.0737   |  |
|                              |                       |          |           | 1333   | 0.0462    | 0.69     |                     | 1524   | 2.250         | 0.1054   |  |
|                              |                       |          |           | 1405   | 1.6500    | 1.57     |                     | 1544   | 1.780         | 0.1259   |  |
|                              |                       |          |           | 1440   | 0.0686    | 1.61     |                     | 1620   | 1.380         | 0.1548   |  |
|                              |                       |          |           | 1520   | 0.0750    | 1.66     |                     | 1920   | 0.745         | 0.2519   |  |
|                              |                       |          |           | 1600   | 0.0150    | 1.67     |                     | 2120   | 0.509         | 0.2902   |  |
|                              |                       |          |           | 1750   | 0.0055    | 1.68     |                     | 2320   | 0.183         | 0.3113   |  |
|                              |                       |          |           |        |           |          |                     | 2400   | 0.110         | 0.3142   |  |
|                              |                       |          |           |        |           |          | 3-11                | 200    | 0.025         | 0.3184   |  |
|                              |                       |          |           |        |           |          |                     | 400    | 0.005         | 0.3193   |  |
|                              |                       |          |           |        |           |          |                     | 734    | 0.0           | 0.3195   |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.030477.





EVENT OF MARCH 10 - 11, 1974  
CHICKASHA, OKLAHOMA WATERSHED C-2

## CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 25 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 44.26 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CRICKASHA, OKLAHOMA |         |       |          | WATERSHED C-3 |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|---------------------|---------|-------|----------|---------------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                 | Jul     | Aug   | Sep      | Oct           | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.10              | 1.57  | 2.66   | 4.14  | 2.61    | 0.78                | 1.57    | 3.89  | 3.52     | 4.82          | 1.20  | 1.53  | 28.39  |       |        |       |
|   | Q | 0.0               | 0.011 | 0.226  | 0.874 | 0.460   | 0.0                 | 0.025   | 1.167 | 0.025    | 0.688         | 0.025 | 0.004 | 3.506  |       |        |       |
| STA AV  | P | 0.89              | 1.12  | 2.21   | 3.07  | 3.74    | 2.19                | 2.00    | 2.73  | 4.02     | 3.16          | 1.25  | 0.89  | 27.27  |       |        |       |
|   | Q | 0.085             | 0.009 | 0.208  | 0.435 | 0.745   | 0.507               | 0.223   | 0.485 | 0.486    | 0.594         | 0.094 | 0.021 | 3.894  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                     |         |       |          |               |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                     | 6 Hours |       | 12 Hours |               | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                | Date    | Vol.  | Date     | Vol.          | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 0.199 | 4-29   | 0.188 | 4-29    | 0.342               | 4-29    | 0.674 | 8- 9     | 1.063         | 8- 9  | 1.167 | 4-29   | 1.214 | 4-24   | 1.243 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                     |         |       |          |               |       |       |        |       |        |       |
|   |   | 5-31              | 0.556 | 5-31   | 0.451 | 5-24    | 0.729               | 5-24    | 1.498 | 5-24     | 1.829         | 10-30 | 2.227 | 10-30  | 2.585 | 10-24  | 2.585 |
|   |   | 1971              |       | 1971   |       | 1973    |                     | 1973    |       | 1973     |               | 1972  |       | 1972   |       | 1972   |       |

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed disked and moldboard plowed 8-10 inches deep in early Jan. 1974. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during mid-May. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Area irrigated three times, commencing July 23 and ending Aug. 9 with total applied about 10 inches. Cotton harvested late Dec. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighing type rain gages. No. 186 and Cotton Research Station gage. Precipitation and runoff records began Sept. 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-3 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.16 | 0.0  | 0.0  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.04 | 0.0  | 0.0  | 0.43 | 0.0  | 0.0  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.10 | 0.04 | 0.0  | 0.0  |                                   |  |
| 8                                 | 0.0  | 0.0  | 0.57 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.39 | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.80 | 0.0  | 0.0  | 0.0  | 0.0  | 1.43 | 0.0  | 0.0  | 0.18 | 0.82 | 0.0  |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.42 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |                                   |  |
| 15                                | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.94 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 20                                | 0.0  | 0.85 | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0  | 0.62 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.19 | 1.35 | 0.0  | 0.0  | 0.0  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.81 | 0.0  | 0.0  | 0.0  | 0.15 | 0.72 | 0.0  | 0.0  | 0.0  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.59 | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.84 | 0.0  | 0.0  | 0.0  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.61 | 0.0  | 0.0  | 1.14 | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.17 | 0.0  | 0.15 | 0.0  |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.20 | 0.0  | 0.0  |                                   |  |
| TOTAL                             | 0.10 | 1.57 | 2.66 | 4.14 | 2.61 | 0.78 | 1.57 | 3.89 | 3.52 | 4.82 | 1.20 | 1.53 |      |                                   |  |
| STA AV                            | 0.89 | 1.12 | 2.21 | 3.07 | 3.74 | 2.19 | 2.00 | 2.73 | 4.02 | 3.16 | 1.25 | 0.89 |      |                                   |  |

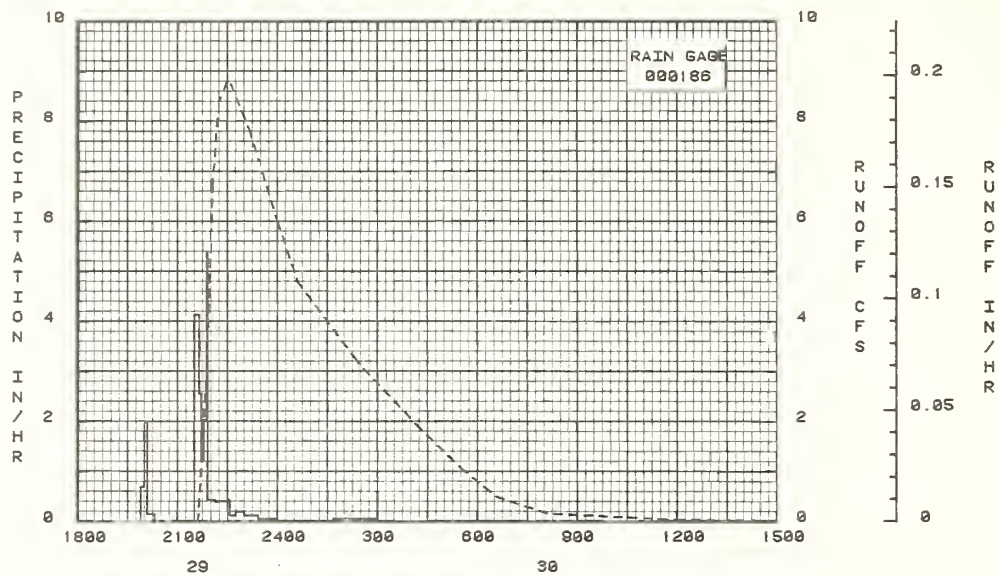
NOTES: Values obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. STA AV based on 10 yr (1965-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-3 |       |        |        |        |        |       |        |        |        |        |        |        |
|---|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.880  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.017  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.036  | 0.0    |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.009  | 0.0    |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.491  | 0.0    | 0.0    | 0.0    | 0.0    |
| 10  | 0.0   | 0.0    | 0.416  | 0.0    | 0.0    | 0.0   | 0.0    | 1.680  | 0.0    | 0.0    | 0.001  | 0.003  |
| 11  | 0.0   | 0.0    | 0.004  | 0.170  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.005  |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.002  | 0.0    | 0.0    | 0.0    |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21  | 0.0   | 0.020  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.039  | 0.052  | 0.0    | 0.0    |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.006  | 0.023  | 0.0    | 0.0    |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.092  | 0.0    | 0.0    |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.352  | 0.0    | 0.0    |
| 29  | 0.0   | 0.0    | 0.0    | 0.680  | 0.0    | 0.0   | 0.044  | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    |
| 30  | 0.0   | 0.0    | 0.0    | 0.775  | 0.0    | 0.0   | 0.003  | 0.0    | 0.0    | 0.539  | 0.0    | 0.0    |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.220  | 0.0    | 0.0    |
| MEAN  | 0.0   | 0.0007 | 0.0136 | 0.0542 | 0.0276 | 0.0   | 0.0015 | 0.0700 | 0.0016 | 0.0413 | 0.0016 | 0.0003 |
| INCRS   | 0.0   | 0.011  | 0.226  | 0.874  | 0.460  | 0.0   | 0.025  | 1.167  | 0.025  | 0.688  | 0.025  | 0.004  |
| STA AV  | 0.085 | 0.009  | 0.208  | 0.435  | 0.745  | 0.507 | 0.223  | 0.485  | 0.486  | 0.594  | 0.094  | 0.021  |

NOTES: To convert discharge in CFS to IER/DAY, multiply by 0.537769. STA AV based on 10 yr (1965-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-3 |          |          |          |        |           |          |        |        |       |          |  |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |       |          |  |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF APRIL 29 - 30, 1974                                 |          |          |          |        |           |          |        |        |       |          |  |
| RG 000186  |          |          |          |        |           |          |        |        |       |          |  |
| 4-29   | 0.70     | 0.0      | 4-29     | 1953   | 0.0       | 0.0      | 4-29   | 2136   | 0.0   | 0.0      |  |
|  |          |          |          | 1959   | 0.7000    | 0.07     |        | 2138   | 0.155 | 0.0001   |  |
|  |          |          |          | 2005   | 2.0000    | 0.27     |        | 2142   | 1.046 | 0.0010   |  |
|  |          |          |          | 2018   | 0.1385    | 0.30     |        | 2152   | 3.153 | 0.0088   |  |
|  |          |          |          | 2129   | 0.0       | 0.30     |        | 2203   | 6.866 | 0.0294   |  |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        |        |       |          |  |
| 100% cultivation, continuous                                 |          |          |          |        |           |          |        |        |       |          |  |
| irrigated cotton. Plowed                                     |          |          |          |        |           |          |        |        |       |          |  |
| 8-10 inches deep in January,                                 |          |          |          |        |           |          |        |        |       |          |  |
| tandem disk 5-6 inches deep                                  |          |          |          |        |           |          |        |        |       |          |  |
| in February, disk 3-4  |          |          |          |        |           |          |        |        |       |          |  |
| inches deep in March and                                     |          |          |          |        |           |          |        |        |       |          |  |
| spring toothed 3-5 inches                                    |          |          |          |        |           |          |        |        |       |          |  |
| deep March 28.   |          |          |          |        |           |          |        |        |       |          |  |
|  |          |          |          | 2138   | 4.1333    | 0.92     |        | 2213   | 8.346 | 0.0578   |  |
|  |          |          |          | 2142   | 2.5500    | 1.09     |        | 2230   | 8.879 | 0.1125   |  |
|  |          |          |          | 2147   | 1.2000    | 1.19     |        | 2309   | 7.832 | 0.2341   |  |
|  |          |          |          | 2152   | 2.0400    | 1.36     |        | 2400   | 5.978 | 0.3657   |  |
|  |          |          |          | 2154   | 5.3988    | 1.54     | 4-30   | 36     | 4.787 | 0.4380   |  |
|  |          |          |          | 2207   | 0.4154    | 1.63     |        | 226    | 3.153 | 0.6011   |  |
|  |          |          |          | 2227   | 0.3900    | 1.76     |        | 410    | 1.922 | 0.6997   |  |
|  |          |          |          | 2234   | 0.4286    | 1.81     |        | 531    | 1.046 | 0.7445   |  |
|  |          |          |          | 2245   | 0.1091    | 1.83     |        | 635    | 0.476 | 0.7627   |  |
|  |          |          |          | 2300   | 0.2000    | 1.88     |        | 806    | 0.155 | 0.7735   |  |
|  |          |          |          | 2311   | 0.1091    | 1.90     |        | 1200   | 0.016 | 0.7809   |  |
|  |          |          |          | 2326   | 0.1200    | 1.93     |        | 1916   | 0.001 | 0.7823   |  |
|  |          |          |          | 2400   | 0.0353    | 1.95     |        | 2400   | 0.0   | 0.7824   |  |
|  |          |          | 4-30     | 141    | 0.0       | 1.95     |        |        |       |          |  |
|  |          |          |          | 300    | 0.0532    | 2.02     |        |        |       |          |  |

NOTES: To convert runoff in CFS to IER/HR, multiply by 0.02241.



EVENT OF APRIL 29 - 30, 1974  
CHICKASHA, OKLAHOMA WATERSHED C-3



## CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady County, Oklahoma; NR 1/4, sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 23 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 29.93 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CRICKASHA, OKLAHOMA |   |       | WATERSHED C-4 |       |       |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|---------------------|---|-------|---------------|-------|-------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                 | Jul                                       | Aug   | Sep           | Oct   | Nov   | Dec   | Annual |       |
| 1974  | P | 0.11              | 1.54  | 2.64   | 4.23  | 2.60    | 0.79                | 1.51                                      | 3.87  | 3.62          | 4.81  | 1.18  | 1.53  | 28.43  |       |
|   | Q | 0.0               | 0.006 | 0.061  | 0.828 | 0.522   | 0.0                 | 0.039                                     | 1.093 | 0.011         | 0.746 | 0.030 | 0.003 | 3.339  |       |
| STA AV  | P | 0.89              | 1.10  | 2.23   | 3.06  | 3.75    | 2.25                | 1.98                                      | 2.76  | 4.02          | 3.14  | 1.23  | 0.90  | 27.30  |       |
|   | Q | 0.105             | 0.007 | 0.157  | 0.296 | 0.702   | 0.395               | 0.210                                     | 0.383 | 0.341         | 0.607 | 0.096 | 0.013 | 3.311  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                     |   |       |               |       |       |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                     | Maximum Volume for Selected Time Interval |       |               |       |       |       |        |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                | Date                                      | Vol.  | Date          | Vol.  | Date  | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 0.343 | 4-29   | 0.301 | 4-29    | 0.552               | 4-29                                      | 0.791 | 8- 9          | 1.021 | 8- 9  | 1.092 | 4-29   | 1.318 |
|   |   |                   |       |        |       |         |                     |   |       |               |       |       |       | 4-24   | 1.331 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                     |   |       |               |       |       |       |        |       |
|   |   | 5-31              | 0.489 | 5-24   | 0.462 | 5-24    | 0.909               | 5-24                                      | 1.826 | 5-24          | 1.873 | 10-30 | 2.663 | 10-30  | 3.184 |
|   |   | 1971              |       | 1973   |       | 1973    |                     | 1973                                      |       | 1973          |       | 1972  |       | 1972   |       |

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Spring pre-plant tillage consists of spring-tooth harrowing, incorporating fertilizer and herbicide - cotton planted mid-May. Irrigated 2 times. Last cultivation in July and last irrigation in August. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-4 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.70 | 0.0  | 0.16 | 0.0  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.04 | 0.0  | 0.0  | 0.43 | 0.0  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.10 |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.10 | 0.03 | 0.0  |                                   |  |
| 8                                 | 0.0  | 0.0  | 0.59 | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.39 | 0.0  | 0.0  | 0.32 | 0.0  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.75 | 0.0  | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.19 | 0.83 |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.42 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |                                   |  |
| 15                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  |                                   |  |
| 20                                | 0.0  | 0.83 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0  | 0.60 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.20 | 1.33 | 0.0  | 0.0  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.0  | 0.15 | 0.73 | 0.0  | 0.0  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.06 | 0.0  | 0.0  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.85 | 0.0  | 0.0  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.70 | 0.0  | 0.0  | 1.08 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.19 | 0.0  | 0.15 |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.20 |                                   |  |
| TOTAL                             | 0.11 | 1.54 | 2.64 | 4.23 | 2.60 | 0.79 | 1.51 | 3.87 | 3.62 | 4.81 | 1.18 | 1.53 |                                   |  |
| STA AV                            | 0.89 | 1.10 | 2.23 | 3.06 | 3.75 | 2.25 | 1.98 | 2.76 | 4.02 | 3.14 | 1.23 | 0.90 |                                   |  |

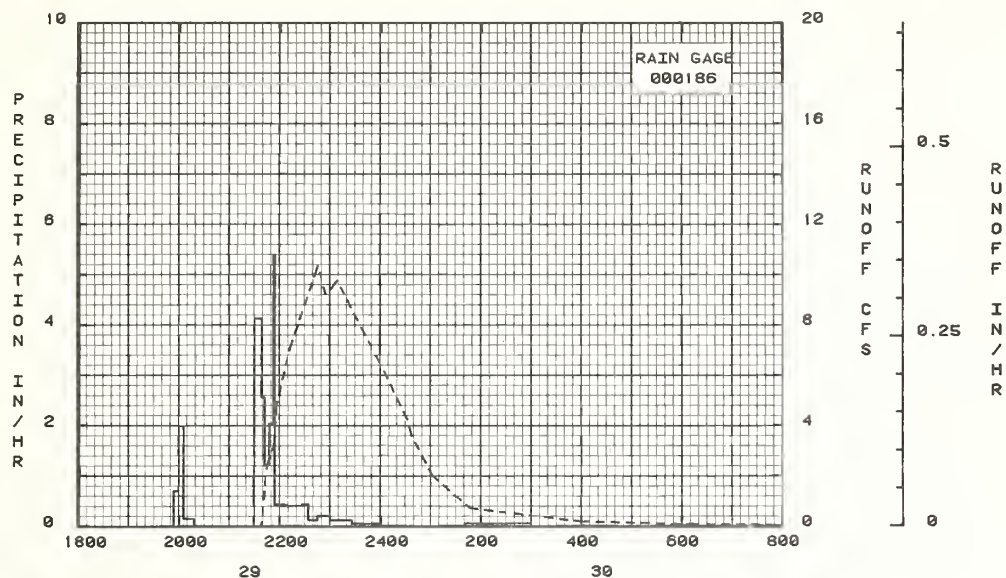
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 186 and 187. STA AV based on 10 yr (1965-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-4 |       |        |        |        |        |       |        |        |        |        |        |        |
|---|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.650  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.006  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.0    |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.027  | 0.0    |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.008  | 0.0    |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.240  | 0.0    | 0.0    | 0.0    | 0.0    |
| 10  | 0.0   | 0.0    | 0.076  | 0.0    | 0.0    | 0.0   | 0.0    | 1.134  | 0.0    | 0.0    | 0.002  | 0.0    |
| 11  | 0.0   | 0.0    | 0.001  | 0.023  | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.004  |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 T  |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0    |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    | 0.0    |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21  | 0.0   | 0.007  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.011  | 0.012  | 0.0    | 0.0    |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.002  | 0.014  | 0.0    | 0.0    |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.068  | 0.0    | 0.0    |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.284  | 0.0    | 0.0    |
| 29  | 0.0   | 0.0    | 0.0    | 0.740  | 0.0    | 0.0   | 0.035  | 0.0    | 0.0    | 0.001  | 0.0    | 0.0    |
| 30  | 0.0   | 0.0    | 0.0    | 0.278  | 0.0    | 0.0   | 0.014  | 0.0    | 0.0    | 0.428  | 0.0    | 0.0    |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.132  | 0.0    | 0.0    |
| MEAN  | 0.0   | 0.0003 | 0.0025 | 0.0347 | 0.0212 | 0.0   | 0.0016 | 0.0443 | 0.0005 | 0.0303 | 0.0013 | 0.0001 |
| INCRS   | 0.0   | 0.006  | 0.061  | 0.828  | 0.522  | 0.0   | 0.039  | 1.093  | 0.011  | 0.746  | 0.030  | 0.003  |
| STA AV  | 0.105 | 0.007  | 0.157  | 0.296  | 0.702  | 0.395 | 0.210  | 0.383  | 0.341  | 0.607  | 0.096  | 0.013  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.795244. STA AV based on 10 yr (1965-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED C-4   |          |          |           |        |           |          |        |        |        |          |  |  |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|--------|----------|--|--|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           |          | RUNOFF |        |        |          |  |  |
| Date   | Rainfall | Rnnoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |  |
| EVENT OF APRIL 29 - 30, 1974   |          |          |           |        |           |          |        |        |        |          |  |  |
| RG 000186  |          |          | RG 000186 |        |           |          |        |        |        |          |  |  |
| 4-29   | 0.70     | 0.0      | 4-29      | 1953   | 0.0       | 0.0      | 4-29   | 2137   | 0.0    | 0.0      |  |  |
|  |          |          |           | 1959   | 0.7000    | 0.07     |        | 2139   | 0.161  | 0.0001   |  |  |
|  |          |          |           | 2005   | 2.0000    | 0.27     |        | 2141   | 1.082  | 0.0008   |  |  |
|  |          |          |           | 2018   | 0.1385    | 0.30     |        | 2145   | 2.449  | 0.0047   |  |  |
|  |          |          |           | 2129   | 0.0       | 0.30     |        | 2153   | 3.260  | 0.0173   |  |  |
| WATERSHED CONDITIONS:<br>100% cultivation, continuous<br>irrigated cotton, fertilizer<br>applied by foot<br>type applicator 6-8 inches<br>deep in February, disk 3-4<br>inches deep in March, spring<br>tooth harrowed 3-5 inches<br>deep in March and again on<br>April 19. |          |          |           | 2138   | 4.1333    | 0.92     |        | 2157   | 4.949  | 0.0264   |  |  |
|  |          |          |           | 2142   | 2.5500    | 1.09     |        | 2212   | 7.099  | 0.0763   |  |  |
|  |          |          |           | 2147   | 1.2000    | 1.19     |        | 2245   | 10.350 | 0.2353   |  |  |
|  |          |          |           | 2152   | 2.0400    | 1.36     |        | 2254   | 9.180  | 0.2838   |  |  |
|  |          |          |           | 2154   | 5.3988    | 1.54     |        | 2308   | 9.754  | 0.3570   |  |  |
|  |          |          |           | 2207   | 0.4154    | 1.63     |        | 2337   | 7.841  | 0.4979   |  |  |
|  |          |          |           | 2227   | 0.3900    | 1.76     |        | 2400   | 6.403  | 0.5883   |  |  |
|  |          |          |           | 2234   | 0.4286    | 1.81     | 4-30   | 32     | 4.221  | 0.6822   |  |  |
|  |          |          |           | 2245   | 0.1091    | 1.83     |        | 37     | 3.563  | 0.6929   |  |  |
|  |          |          |           | 2300   | 0.2000    | 1.88     |        | 102    | 1.987  | 0.7313   |  |  |
|  |          |          |           | 2311   | 0.1091    | 1.90     |        | 147    | 0.693  | 0.7646   |  |  |
|  |          |          |           | 2326   | 0.1200    | 1.93     |        | 400    | 0.161  | 0.7959   |  |  |
|  |          |          |           | 2400   | 0.0353    | 1.95     |        | 612    | 0.048  | 0.8035   |  |  |
|  |          |          | 4-30      | 141    | 0.0       | 1.95     |        | 832    | 0.023  | 0.8063   |  |  |
|  |          |          |           | 300    | 0.0532    | 2.02     |        | 1200   | 0.008  | 0.8081   |  |  |
|  |          |          |           |        |           |          |        | 1737   | 0.002  | 0.8090   |  |  |
|  |          |          |           |        |           |          |        | 2400   | 0.0    | 0.8092   |  |  |

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.03314.



## CHICKASHA, OKLAHOMA WATERSHED C-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, N. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 33 sec. W.

AREA: 12.75 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               |            |             |             |       |       |       |       | CHICKASHA, OKLAHOMA WATERSHED C-5 |       |
|---|---|------------------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|-------|-------|-------|-------|-----------------------------------|-------|
|   |   | Jan                    | Feb         | Mar          | Apr          | May           | Jun        | Jul         | Aug         | Sep   | Oct   | Nov   | Dec   | Annual                            |       |
| 1974  | P | 0.12                   | 1.55        | 2.61         | 4.26         | 2.57          | 0.94       | 1.39        | 3.83        | 3.61  | 4.71  | 1.17  | 1.53  | 28.29                             |       |
|   | Q | 0.0                    | 0.139       | 0.737        | 0.440        | 0.425         | 0.0        | 0.0         | 0.028       | 0.0   | 0.718 | 0.103 | 0.0   | 2.590                             |       |
| STA AV  | P | 0.88                   | 1.09        | 2.19         | 3.05         | 3.64          | 2.26       | 1.82        | 3.30        | 3.95  | 3.09  | 1.20  | 0.89  | 27.37                             |       |
|   | Q | 0.055                  | 0.015       | 0.412        | 0.244        | 0.302         | 0.175      | 0.003       | 0.043       | 0.164 | 0.444 | 0.053 | 0.001 | 1.911                             |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |            |             |             |       |       |       |       |                                   |       |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date |       |       |       |       |                                   |       |
| 1974  |   | 3-10                   | 0.243       | 3-10         | 0.215        | 3-10          | 0.368      | 3-10        | 0.609       | 3-10  | 0.697 | 3-10  | 0.734 | 3-9                               | 0.737 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |            |             |             |       |       |       |       |                                   |       |
|   |   | 10-2                   | 0.595       | 10-2         | 0.546        | 10-2          | 0.884      | 10-2        | 1.547       | 10-2  | 1.638 | 10-2  | 1.652 | 10-30                             | 1.837 |
|   |   | 1971                   |             | 1971         |              | 1971          |            | 1971        |             | 1971  |       | 1971  |       | 1972                              |       |

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Harvested June 9, disked 6-8 inches deep June 10. Spring-tooth harrowed 3 times in Sept. and Oct. Wheat planted mid-Oct. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p.69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-5 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
|                                   | Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.99 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.71 | 0.0  | 0.18 | 0.0  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.03 | 0.0  | 0.0  | 0.42 | 0.0  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.39 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.10 |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.09 | 0.03 | 0.0  |                                   |  |
| 8                                 | 0.0  | 0.0  | 0.59 | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.0  | 0.30 | 0.0  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.72 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.19 | 0.83 |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 0.0  | 1.41 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  |                                   |  |
| 15                                | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.01 | 0.0  | 0.0  | 0.0  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.36 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |                                   |  |
| 20                                | 0.0  | 0.83 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0  | 0.61 | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.19 | 1.31 | 0.0  | 0.0  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.0  | 0.15 | 0.67 | 0.0  | 0.0  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.49 | 0.0  | 0.07 | 0.0  | 0.0  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.83 | 0.0  | 0.0  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.75 | 0.0  | 0.0  | 0.0  | 1.00 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.18 | 0.0  | 0.15 |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.23 | 0.0  | 0.20 |                                   |  |
| TOTAL                             |      | 0.12 | 1.55 | 2.61 | 4.26 | 2.57 | 0.94 | 1.39 | 3.83 | 3.61 | 4.71 | 1.17 | 1.53 |                                   |  |
| STA AV                            |      | 0.88 | 1.09 | 2.19 | 3.05 | 3.64 | 2.26 | 1.82 | 3.30 | 3.95 | 3.09 | 1.20 | 0.89 |                                   |  |

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 10 yr (1965-74) record period.

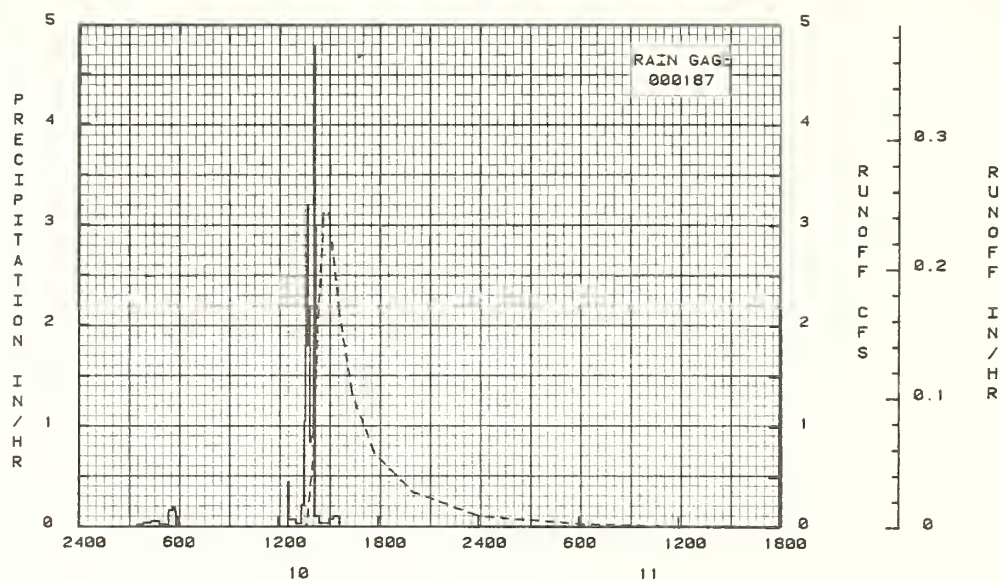


| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-5 |       |        |        |        |        |       |       |        |       |        |        |       |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec   |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.194  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.033  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.001  | 0.0   |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.047  | 0.0   |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.003  | 0.0   |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.002  | 0.0   | 0.0    | 0.0    | 0.0   |
| 10  | 0.0   | 0.0    | 0.368  | 0.0    | 0.0    | 0.0   | 0.0   | 0.014  | 0.0   | 0.0    | 0.004  | 0.0   |
| 11  | 0.0   | 0.0    | 0.026  | 0.031  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 21  | 0.0   | 0.074  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.001  | 0.0    | 0.0   |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.007  | 0.0    | 0.0   |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.104  | 0.0    | 0.0   |
| 29  | 0.0   | 0.0    | 0.0    | 0.089  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 30  | 0.0   | 0.0    | 0.0    | 0.116  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.218  | 0.0    | 0.0   |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.053  | 0.0    | 0.0   |
| MEAN  | 0.0   | 0.0027 | 0.0127 | 0.0079 | 0.0073 | 0.0   | 0.0   | 0.0005 | 0.0   | 0.0124 | 0.0018 | 0.0   |
| INCRES  | 0.0   | 0.139  | 0.737  | 0.440  | 0.425  | 0.0   | 0.0   | 0.028  | 0.0   | 0.718  | 0.103  | 0.0   |
| STA AV  | 0.055 | 0.015  | 0.412  | 0.244  | 0.302  | 0.175 | 0.003 | 0.043  | 0.164 | 0.444  | 0.053  | 0.001 |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.866796. STA AV based on 10 yr (1965-74) record period.

| 1974                         | SELECTED RUNOFF EVENT |          |           | CHICKASAW, OKLAHOMA WATERSHED C-5 |           |          |        |        |       |          |
|------------------------------|-----------------------|----------|-----------|-----------------------------------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS        |                       |          | RAINFALL  |                                   |           |          | RUNOFF |        |       |          |
| Date                         | Rainfall              | Runoff   | Date      | Time                              | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day                       | (inches)              | (inches) | Mo-Day    | of Day                            | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF MARCH 10 - 11, 1974 |                       |          |           |                                   |           |          |        |        |       |          |
| RG 000187                    |                       |          | RG 000187 |                                   |           |          |        |        |       |          |
| 3-10                         | 0.06                  | 0.0      | 3-10      | 332                               | 0.0       | 0.0      | 3-10   | 1341   | 0.0   | 0.0      |
|                              |                       |          |           | 355                               | 0.0261    | 0.01     |        | 1344   | 0.033 | 0.0001   |
|                              |                       |          |           | 422                               | 0.0444    | 0.03     |        | 1354   | 0.347 | 0.0025   |
|                              |                       |          |           | 453                               | 0.0581    | 0.06     |        | 1406   | 0.732 | 0.0109   |
|                              |                       |          |           | 526                               | 0.0182    | 0.07     |        | 1421   | 2.094 | 0.0384   |
| WATERSHED CONDITIONS:        |                       |          |           | 540                               | 0.1714    | 0.11     |        | 1439   | 3.121 | 0.0992   |
| 100% cultivation, continuous |                       |          |           | 549                               | 0.2000    | 0.14     |        | 1457   | 3.121 | 0.1721   |
| dry land wheat.              |                       |          |           | 553                               | 0.1500    | 0.15     |        | 1539   | 2.094 | 0.3140   |
|                              |                       |          |           | 1234                              | 0.0       | 0.15     |        | 1625   | 1.305 | 0.4154   |
|                              |                       |          |           | 1238                              | 0.4500    | 0.18     |        | 1745   | 0.732 | 0.5210   |
|                              |                       |          |           | 1304                              | 0.0692    | 0.21     |        | 2002   | 0.347 | 0.6168   |
|                              |                       |          |           | 1324                              | 0.0300    | 0.22     |        | 2400   | 0.112 | 0.6876   |
|                              |                       |          |           | 1332                              | 0.2250    | 0.25     | 3-11   | 621    | 0.033 | 0.7235   |
|                              |                       |          |           | 1336                              | 1.0500    | 0.32     |        | 1200   | 0.011 | 0.7331   |
|                              |                       |          |           | 1340                              | 1.8000    | 0.44     |        | 1501   | 0.006 | 0.7351   |
|                              |                       |          |           | 1343                              | 3.2000    | 0.60     |        | 2230   | 0.0   | 0.7369   |
|                              |                       |          |           | 1346                              | 2.0000    | 0.70     |        |        |       |          |
|                              |                       |          |           | 1350                              | 1.8000    | 0.82     |        |        |       |          |
|                              |                       |          |           | 1353                              | 2.2000    | 0.93     |        |        |       |          |
|                              |                       |          |           | 1358                              | 0.8400    | 1.00     |        |        |       |          |
|                              |                       |          |           | 1404                              | 0.9000    | 1.09     |        |        |       |          |
|                              |                       |          |           | 1406                              | 4.8000    | 1.25     |        |        |       |          |
|                              |                       |          |           | 1409                              | 2.8000    | 1.39     |        |        |       |          |
|                              |                       |          |           | 1412                              | 3.0000    | 1.54     |        |        |       |          |
|                              |                       |          |           | 1429                              | 0.1059    | 1.57     |        |        |       |          |
|                              |                       |          |           | 1504                              | 0.0343    | 1.59     |        |        |       |          |
|                              |                       |          |           | 1518                              | 0.0857    | 1.61     |        |        |       |          |
|                              |                       |          |           | 1540                              | 0.1091    | 1.65     |        |        |       |          |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.



## CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 34 sec. W.

AREA: 13.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CHICKASHA, OKLAHOMA WATERSHED C-6 |   |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-----------------------------------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                               | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.12              | 1.54  | 2.61   | 4.26  | 2.58    | 0.96                              | 1.39                                      | 3.82  | 3.62  | 4.70  | 1.17  | 1.53  | 28.30  |       |        |       |
|   | Q | 0.0               | 0.081 | 0.593  | 0.473 | 0.248   | 0.0                               | 0.0                                       | 0.005 | 0.0   | 0.749 | 0.088 | 0.006 | 2.243  |       |        |       |
| STA AV  | P | 0.88              | 1.09  | 2.18   | 3.07  | 3.64    | 2.26                              | 1.81                                      | 3.31  | 3.95  | 3.10  | 1.20  | 0.89  | 27.38  |       |        |       |
|   | Q | 0.092             | 0.017 | 0.453  | 0.256 | 0.342   | 0.185                             | 0.004                                     | 0.088 | 0.218 | 0.448 | 0.063 | 0.009 | 2.175  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                   |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                   | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                              | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-10              | 0.238 | 3-10   | 0.199 | 3-10    | 0.328                             | 3-10                                      | 0.527 | 3-10  | 0.582 | 3-10  | 0.593 | 4-30   | 0.698 | 10-27  | 0.821 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                   |   |       |       |       |       |       |        |       |        |       |
|   |   | 10-2              | 0.877 | 10-2   | 0.776 | 10-2    | 1.123                             | 10-2                                      | 1.695 | 10-2  | 1.761 | 10-2  | 1.763 | 10-30  | 1.769 | 5-24   | 1.841 |
|   |   | 1971              |       | 1971   |       | 1971    |                                   | 1971                                      |       | 1971  |       | 1971  |       | 1972   |       | 1973   |       |

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1973 and harvested for grain in June 1974. Watershed was disked soon after harvest and remained in rough condition until about early September 1974, when watershed was spring-tooth harrowed, in preparation for seeding to wheat. Watershed was fertilized and freshly spring-tooth and spike-tooth harrowed just prior to seeding wheat in mid-Oct. 1974. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.35-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff record began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-6 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.99 | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.72 | 0.0  | 0.18 | 0.0  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.03 | 0.0  | 0.0  | 0.42 | 0.0  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.39 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.10 |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.09 | 0.03 | 0.0  |                                   |  |
| 8                                 | 0.0  | 0.0  | 0.59 | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0  | 0.0  | 0.30 | 0.0  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.72 | 0.0  | 0.0  | 0.0  | 0.0  | 1.44 | 0.0  | 0.0  | 0.19 | 0.83 |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.81 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  |                                   |  |
| 15                                | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.02 | 0.0  | 0.0  | 0.0  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.38 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |                                   |  |
| 20                                | 0.0  | 0.83 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0  | 0.61 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.18 | 1.31 | 0.0  | 0.0  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.0  | 0.15 | 0.66 | 0.0  | 0.0  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.0  | 0.07 | 0.0  | 0.0  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.84 | 0.0  | 0.0  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.75 | 0.0  | 0.0  | 1.00 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.17 | 0.0  | 0.15 |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.20 | 0.0  |                                   |  |
| TOTAL                             | 0.12 | 1.54 | 2.61 | 4.26 | 2.58 | 0.96 | 1.39 | 3.82 | 3.62 | 4.70 | 1.17 | 1.53 |                                   |  |
| STA AV                            | 0.88 | 1.09 | 2.18 | 3.07 | 3.64 | 2.26 | 1.81 | 3.31 | 3.95 | 3.10 | 1.20 | 0.89 |                                   |  |

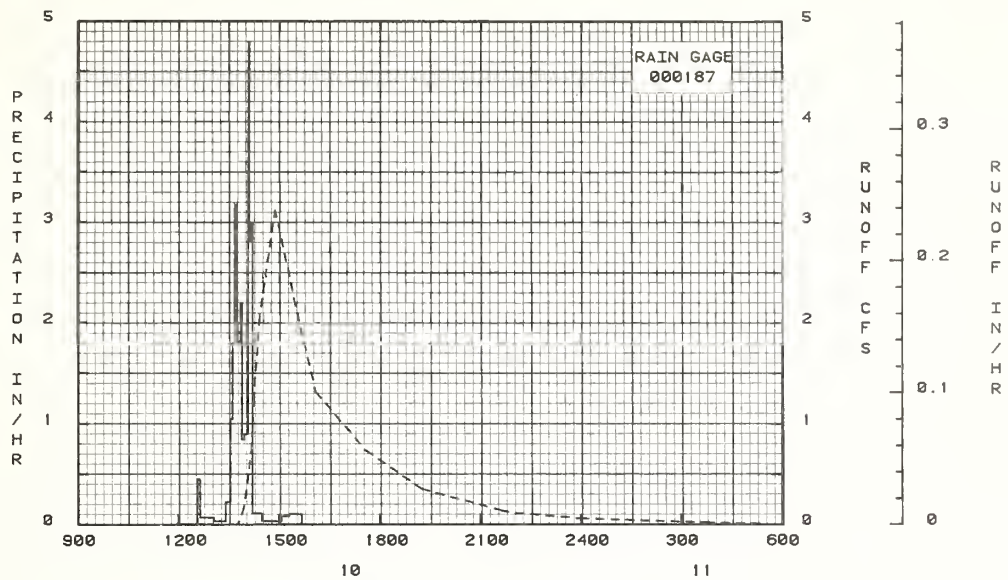
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 10 yr (1965-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-6 |       |        |        |        |        |       |       |        |       |        |        |        |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|--------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec    |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.124  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.011  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.003  | 0.0    |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.038  | 0.0    |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.001  | 0.0    |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.001  | 0.0    |
| 10  | 0.0   | 0.0    | 0.315  | 0.0    | 0.0    | 0.0   | 0.0   | 0.003  | 0.0   | 0.0    | 0.006  | 0.003  |
| 11  | 0.0   | 0.0    | 0.009  | 0.011  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 21  | 0.0   | 0.044  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.002  | 0.0    | 0.0    |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.004  | 0.0    | 0.0    |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.005  | 0.0    | 0.0    |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.111  | 0.0    | 0.0    |
| 29  | 0.0   | 0.0    | 0.0    | 0.175  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    |
| 30  | 0.0   | 0.0    | 0.0    | 0.072  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.263  | 0.0    | 0.0    |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.025  | 0.0    | 0.0    |
| MEAN  | 0.0   | 0.0016 | 0.0104 | 0.0086 | 0.0044 | 0.0   | 0.0   | 0.0001 | 0.0   | 0.0132 | 0.0016 | 0.0001 |
| INCHES  | 0.0   | 0.081  | 0.593  | 0.473  | 0.248  | 0.0   | 0.0   | 0.005  | 0.0   | 0.749  | 0.088  | 0.006  |
| STA AV  | 0.092 | 0.017  | 0.453  | 0.256  | 0.342  | 0.185 | 0.004 | 0.088  | 0.218 | 0.448  | 0.063  | 0.009  |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.830896. STA AV based on 10 yr (1965-74) record period.

| 1974  | SELECTED EUNOFF EVENT |          |           |        |           |          | CHICKASHA, OKLAHOMA |        | WATERSHEED C-6 |          |  |  |
|---|-----------------------|----------|-----------|--------|-----------|----------|---------------------|--------|----------------|----------|--|--|
| ANTECEDENT CONDITIONS   |                       |          | RAINFALL  |        |           |          | EUNOFF              |        |                |          |  |  |
| Date  | Rainfall              | Eunoff   | Date      | Time   | Intensity | Acc.     | Date                | Time   | Rate           | Acc.     |  |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day              | of Day | (cfs)          | (inches) |  |  |
| EVENT OF MARCH 10 - 11, 1974  |                       |          |           |        |           |          |                     |        |                |          |  |  |
| EG 000187   |                       |          | EG 000187 |        |           |          |                     |        |                |          |  |  |
| 3-10  | 0.21                  | 0.0      | 3-10      | 1234   | 0.0       | 0.0      | 3-10                | 1345   | 0.0            | 0.0      |  |  |
|   |                       |          |           | 1238   | 0.4500    | 0.03     |                     | 1349   | 0.033          | 0.0001   |  |  |
|   |                       |          |           | 1304   | 0.0692    | 0.06     |                     | 1358   | 0.194          | 0.0014   |  |  |
|   |                       |          |           | 1324   | 0.0300    | 0.07     |                     | 1410   | 0.732          | 0.0084   |  |  |
|   |                       |          |           | 1332   | 0.2250    | 0.10     |                     | 1415   | 1.305          | 0.0149   |  |  |
| WATERSHEED CONDITIONS:<br>100% cultivation, continuous<br>dry land wheat. Moldboard<br>plowed previous July, disk<br>harrowed three times and<br>spring-toothed 3-5 inches<br>deep. |                       |          |           | 1336   | 1.0500    | 0.17     |                     | 1425   | 2.094          | 0.0365   |  |  |
|   |                       |          |           | 1340   | 1.8000    | 0.29     |                     | 1452   | 3.121          | 0.1260   |  |  |
|   |                       |          |           | 1343   | 3.2000    | 0.45     |                     | 1532   | 2.094          | 0.2586   |  |  |
|   |                       |          |           | 1346   | 2.0000    | 0.55     |                     | 1605   | 1.305          | 0.3299   |  |  |
|   |                       |          |           | 1350   | 1.8000    | 0.67     |                     | 1735   | 0.732          | 0.4465   |  |  |
|   |                       |          |           | 1353   | 2.2000    | 0.78     |                     | 1915   | 0.347          | 0.5151   |  |  |
|   |                       |          |           | 1358   | 0.8400    | 0.85     |                     | 2150   | 0.121          | 0.5612   |  |  |
|   |                       |          |           | 1404   | 0.9000    | 0.94     |                     | 2400   | 0.062          | 0.5763   |  |  |
|   |                       |          |           | 1406   | 4.8000    | 1.10     | 3-11                | 345    | 0.018          | 0.5878   |  |  |
|   |                       |          |           | 1409   | 2.8000    | 1.24     |                     | 905    | 0.004          | 0.5922   |  |  |
|   |                       |          | 1412      | 3.0000 | 1.39      |          | 950                 | 0.002  | 0.5924         |          |  |  |
|   |                       |          | 1429      | 0.1059 | 1.42      |          | 1240                | 0.0    | 0.5926         |          |  |  |
|   |                       |          | 1504      | 0.0343 | 1.44      |          |                     |        |                |          |  |  |
|   |                       |          | 1518      | 0.0857 | 1.46      |          |                     |        |                |          |  |  |
|   |                       |          | 1540      | 0.1091 | 1.50      |          |                     |        |                |          |  |  |





EVENT OF MARCH 10 - 11, 1974  
CHICKASHA, OKLAHOMA WATERSHED C-6

## CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 01 sec. N.; Long. 97 deg. 54 min. 38 sec. W.

AREA: 26.52 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CHICKASHA, OKLAHOMA WATERSHED C-7 |         |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-----------------------------------|---------|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                               | Jul     | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.11              | 1.54  | 2.60   | 4.28  | 2.57    | 1.03                              | 1.38    | 3.83  | 3.65     | 4.72  | 1.19  | 1.54  | 28.44  |       |        |       |
|   | Q | 0.0               | 0.004 | 0.171  | 0.220 | 0.023   | 0.0                               | 0.0     | 0.116 | 0.0      | 0.052 | 0.0   | 0.0   | 0.586  |       |        |       |
| STA AV  | P | 0.88              | 1.09  | 2.17   | 3.05  | 3.62    | 2.27                              | 1.80    | 3.29  | 3.95     | 3.09  | 1.20  | 0.89  | 27.31  |       |        |       |
|   | Q | 0.004             | 0.011 | 0.116  | 0.279 | 0.288   | 0.240                             | 0.092   | 0.274 | 0.271    | 0.448 | 0.030 | 0.004 | 2.057  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                   |         |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                   | 6 Hours |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                              | Date    | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 3-10              | 0.100 | 3-10   | 0.081 | 3-10    | 0.127                             | 4-29    | 0.205 | 4-29     | 0.215 | 4-30  | 0.215 | 4-30   | 0.238 | 4-24   | 0.238 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                   |         |       |          |       |       |       |        |       |        |       |
|   |   | 4-12              | 0.957 | 4-12   | 0.637 | 4-12    | 0.824                             | 10-2    | 1.379 | 10-2     | 1.596 | 10-30 | 1.891 | 10-30  | 2.220 | 11-4   | 2.220 |
|   |   | 1967              |       | 1967   |       | 1967    |                                   | 1971    |       | 1971     |       | 1972  |       | 1972   |       | 1972   |       |

NOTES: Watershed conditions: 100% cropland. North portion was planted to alfalfa in fall of 1968. South portion of watershed was planted to grain and forage sorghums and cotton mid-May. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall value from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   |     | DAILY PRECIPITATION (inches) |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-7 |      |      |      |      |      |      |
|--------|-----|------------------------------|------|------|------|------|-----------------------------------|------|------|------|------|------|------|
|        | Day | Jan                          | Feb  | Mar  | Apr  | May  | Jun                               | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
|        | 1   | 0.01                         | 0.0  | 0.0  | 0.0  | 0.98 | 0.0                               | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 2   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.73 | 0.0  | 0.19 | 0.0  |
|        | 3   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.27                              | 0.0  | 0.03 | 0.0  | 0.0  | 0.42 | 0.0  |
|        | 4   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.03                              | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 5   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.10 |
|        | 6   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.24                              | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  |
|        | 7   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02                              | 0.0  | 0.0  | 0.0  | 0.09 | 0.04 | 0.0  |
|        | 8   | 0.0                          | 0.0  | 0.58 | 0.0  | 0.0  | 0.05                              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 9   | 0.08                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 1.34 | 0.0  | 0.0  | 0.30 | 0.0  |
|        | 10  | 0.0                          | 0.0  | 1.71 | 0.0  | 0.0  | 0.0                               | 0.0  | 1.45 | 0.0  | 0.0  | 0.18 | 0.83 |
|        | 11  | 0.0                          | 0.0  | 0.0  | 1.42 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 |
|        | 12  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |
|        | 13  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  |
|        | 14  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |
|        | 15  | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.0  |
|        | 16  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |
|        | 17  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.42                              | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  |
|        | 18  | 0.0                          | 0.07 | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 19  | 0.01                         | 0.0  | 0.0  | 0.05 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |
|        | 20  | 0.0                          | 0.83 | 0.31 | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  |
|        | 21  | 0.0                          | 0.61 | 0.0  | 0.0  | 0.01 | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 22  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 23  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.14 | 0.0                               | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 24  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 1.18 | 1.30 | 0.0  | 0.0  |
|        | 25  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.79 | 0.0                               | 0.0  | 0.0  | 0.16 | 0.65 | 0.0  | 0.0  |
|        | 26  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |
|        | 27  | 0.01                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.47 | 0.0  | 0.08 | 0.0  | 0.0  |
|        | 28  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.84 | 0.0  | 0.0  |
|        | 29  | 0.0                          | 0.0  | 0.0  | 2.75 | 0.0  | 0.0                               | 1.00 | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  |
|        | 30  | 0.0                          | 0.0  | 0.0  | 0.06 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 1.17 | 0.0  | 0.15 |
|        | 31  | 0.0                          | 0.0  | 0.0  | 0.65 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.20 |
| TOTAL  |     | 0.11                         | 1.54 | 2.60 | 4.28 | 2.57 | 1.03                              | 1.38 | 3.83 | 3.65 | 4.72 | 1.19 | 1.54 |
| STA AV |     | 0.88                         | 1.09 | 2.17 | 3.05 | 3.62 | 2.27                              | 1.80 | 3.29 | 3.95 | 3.09 | 1.20 | 0.89 |

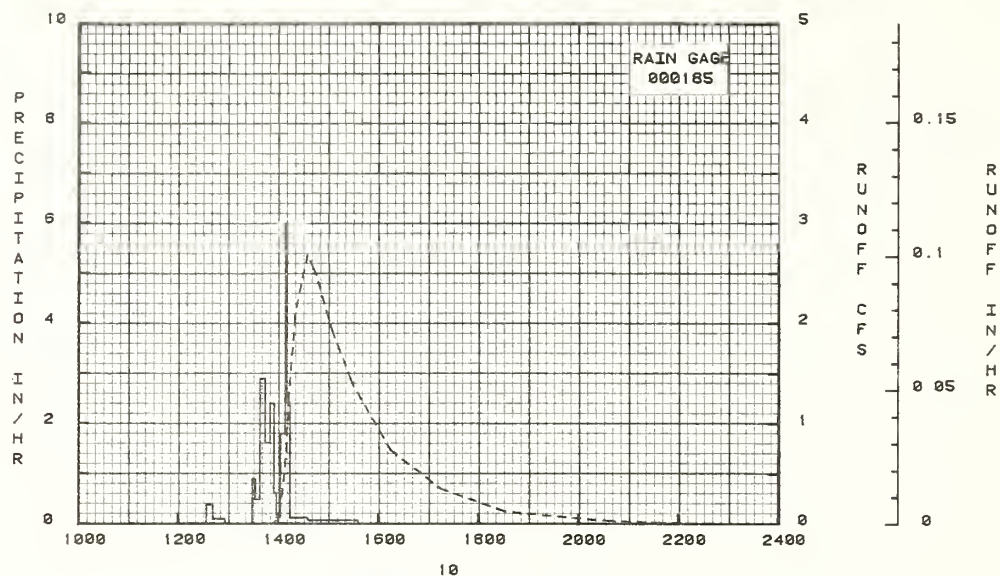
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based 10 yr (1965-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED C-7 |       |        |        |        |        |       |       |        |       |        |       |       |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov   | Dec   |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.028  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.024  | 0.0   | 0.0    | 0.0   | 0.0   |
| 10  | 0.0   | 0.0    | 0.190  | 0.0    | 0.0    | 0.0   | 0.0   | 0.106  | 0.0   | 0.0    | 0.0   | 0.0   |
| 11  | 0.0   | 0.0    | 0.0    | 0.006  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 21  | 0.0   | 0.004  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.004  | 0.0   | 0.0   |
| 29  | 0.0   | 0.0    | 0.0    | 0.147  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   |
| 30  | 0.0   | 0.0    | 0.0    | 0.093  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.048  | 0.0   | 0.0   |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.006  | 0.0   | 0.0   |
| MEAN  | 0.0   | 0.0001 | 0.0061 | 0.0082 | 0.0008 | 0.0   | 0.0   | 0.0042 | 0.0   | 0.0019 | 0.0   | 0.0   |
| INCRS   | 0.0   | 0.004  | 0.171  | 0.220  | 0.023  | 0.0   | 0.0   | 0.116  | 0.0   | 0.052  | 0.0   | 0.0   |
| STA AV  | 0.004 | 0.011  | 0.116  | 0.279  | 0.288  | 0.240 | 0.092 | 0.274  | 0.271 | 0.448  | 0.030 | 0.004 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.897498. STA AV based on 10 yr (1965-74) record period.

| 1974 SELECTED RUNOFF EVENT  |          |          | CRICKASHA, OKLAHOMA WATERSHED C-7 |        |           |          |        |        |        |          |  |
|---|----------|----------|-----------------------------------|--------|-----------|----------|--------|--------|--------|----------|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL                          |        |           |          | RUNOFF |        |        |          |  |
| Date  | Rainfall | Runoff   | Date                              | Time   | Intensity | Acc.     | Date   | Time   | Rate   | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day                            | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs)  | (inches) |  |
| EVENT OF MARCH 10, 1974   |          |          |                                   |        |           |          |        |        |        |          |  |
| RG 000185   |          |          | RG 000185                         |        |           |          |        |        |        |          |  |
| 3-10  | 0.24     | 0.0      | 3-10                              | 1100   | 0.0       | 0.0      | 3-10   | 1355   | 0.0    | 0.0      |  |
|   |          |          |                                   | 1234   | 0.0       | 0.0      |        | 1357   | 0.033  | 0.0000   |  |
|   |          |          |                                   | 1242   | 0.3750    | 0.05     |        | 1402   | 0.121  | 0.0003   |  |
|   |          |          |                                   | 1256   | 0.0857    | 0.07     |        | 1406   | 0.347  | 0.0008   |  |
|   |          |          |                                   | 1329   | 0.0       | 0.07     |        | 1410   | 0.732  | 0.0022   |  |
| WATERSHED CONDITIONS:<br>North portion of field in<br>alfalfa. South portion of<br>field in grain sorghum in<br>1974. |          |          |                                   | 1333   | 0.9000    | 0.13     |        | 1413   | 1.305  | 0.0041   |  |
|   |          |          |                                   | 1338   | 0.4800    | 0.17     |        | 1420   | 2.094  | 0.0115   |  |
|   |          |          |                                   | 1344   | 2.9000    | 0.46     |        | 1434   | 2.680  | 0.0323   |  |
|   |          |          |                                   | 1350   | 1.6000    | 0.62     |        | 1445   | 2.475  | 0.0500   |  |
|   |          |          |                                   | 1355   | 2.4000    | 0.82     |        | 1504   | 1.917  | 0.0760   |  |
|   |          |          |                                   | 1358   | 0.6000    | 0.85     |        | 1530   | 1.374  | 0.1027   |  |
|   |          |          |                                   | 1403   | 0.1200    | 0.86     |        | 1615   | 0.732  | 0.1322   |  |
|   |          |          |                                   | 1408   | 1.8000    | 1.01     |        | 1715   | 0.347  | 0.1524   |  |
|   |          |          |                                   | 1410   | 6.0000    | 1.21     |        | 1833   | 0.121  | 0.1637   |  |
|   |          |          |                                   | 1414   | 2.4000    | 1.37     |        | 2035   | 0.033  | 0.1696   |  |
|   |          |          | 1436                              | 0.1091 | 1.41      |          | 2145   | 0.011  | 0.1705 |          |  |
|   |          |          | 1506                              | 0.0600 | 1.44      |          | 2255   | 0.004  | 0.1709 |          |  |
|   |          |          | 1536                              | 0.0600 | 1.47      |          | 2339   | 0.0    | 0.1709 |          |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.





## CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 01 min. 55 sec. N.; Long. 97 deg. 54 min. 25 sec. W.

AREA: 27.28 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |       |              |       |              |       |               | CHICKASHA, OKLAHOMA WATERSHED C-8 |            |       |             |        |             |       |      |       |
|---|---|------------------------|-------------|-------|--------------|-------|--------------|-------|---------------|-----------------------------------|------------|-------|-------------|--------|-------------|-------|------|-------|
|   |   | Jan                    | Feb         | Mar   | Apr          | May   | Jun          | Jul   | Aug           | Sep                               | Oct        | Nov   | Dec         | Annual |             |       |      |       |
| 1974  | P | 0.12                   | 1.58        | 2.70  | 4.39         | 2.66  | 1.31         | 1.39  | 3.96          | 3.90                              | 5.14       | 1.32  | 1.63        | 30.10  |             |       |      |       |
|   | Q | 0.0                    | 0.059       | 0.560 | 0.430        | 0.305 | 0.0          | 0.0   | 0.097         | 0.001                             | 0.299      | 0.004 | 0.0         | 1.756  |             |       |      |       |
| STA AV  | P | 0.90                   | 1.12        | 2.26  | 3.00         | 3.71  | 2.32         | 1.87  | 3.34          | 3.98                              | 3.27       | 1.25  | 0.91        | 27.92  |             |       |      |       |
|   | Q | 0.004                  | 0.007       | 0.228 | 0.102        | 0.130 | 0.106        | 0.048 | 0.141         | 0.159                             | 0.264      | 0.012 | 0.0         | 1.202  |             |       |      |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |       |              |       |              |       |               |                                   |            |       |             |        |             |       |      |       |
|   |   | Maximum Discharge Date | 1 Hour Date | Vol.  | 2 Hours Date | Vol.  | 6 Hours Date | Vol.  | 12 Hours Date | Vol.                              | 1 Day Date | Vol.  | 2 Days Date | Vol.   | 8 Days Date | Vol.  |      |       |
| 1974  |   | 3-10                   | 0.145       |       | 3-10         | 0.130 | 3-10         | 0.252 | 3-10          | 0.483                             | 3-10       | 0.553 | 3-10        | 0.560  | 4-30        | 0.720 | 4-24 | 0.723 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |       |              |       |              |       |               |                                   |            |       |             |        |             |       |      |       |
|   |   | 10-2                   | 0.858       |       | 10-2         | 0.693 | 10-2         | 0.998 | 10-2          | 1.405                             | 10-2       | 1.458 | 10-2        | 1.458  | 10-1        | 1.458 | 9-25 | 1.458 |
|   |   | 1971                   |             |       | 1971         |       | 1971         |       | 1971          |                                   | 1971       |       | 1971        |        | 1971        |       | 1971 |       |

NOTES: Watershed conditions: 100% cropland, entire watershed in alfalfa. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 188. Precipitation and runoff records began April 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED C-8 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |                                   |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.19 | 0.0  | 0.0  |                                   |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.35 | 0.0  | 0.04 | 0.0  | 0.0  | 0.48 | 0.0  | 0.0  |                                   |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 |                                   |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  |                                   |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.09 | 0.04 | 0.0  | 0.0  |                                   |  |
| 8                                 | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 9                                 | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.36 | 0.0  | 0.0  | 0.37 | 0.0  | 0.0  |                                   |  |
| 10                                | 0.0  | 0.0  | 1.77 | 0.0  | 0.0  | 0.0  | 0.0  | 1.50 | 0.0  | 0.0  | 0.19 | 0.89 | 0.0  |                                   |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.53 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  |                                   |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  |                                   |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  |                                   |  |
| 15                                | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.13 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.56 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 18                                | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 20                                | 0.0  | 0.84 | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 21                                | 0.0  | 0.63 | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.26 | 1.47 | 0.0  | 0.0  | 0.0  |                                   |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.79 | 0.0  | 0.0  | 0.0  | 0.16 | 0.73 | 0.0  | 0.0  | 0.0  |                                   |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                   |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  |                                   |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.89 | 0.0  | 0.0  | 0.0  |                                   |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.75 | 0.0  | 0.0  | 1.01 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  |                                   |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.20 | 0.0  | 0.17 | 0.0  |                                   |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.22 | 0.0  |                                   |  |
| TOTAL                             | 0.12 | 1.58 | 2.70 | 4.39 | 2.66 | 1.31 | 1.39 | 3.96 | 3.90 | 5.14 | 1.32 | 1.63 |      |                                   |  |
| STA AV                            | 0.90 | 1.12 | 2.26 | 3.00 | 3.71 | 2.32 | 1.87 | 3.34 | 3.98 | 3.27 | 1.25 | 0.91 |      |                                   |  |

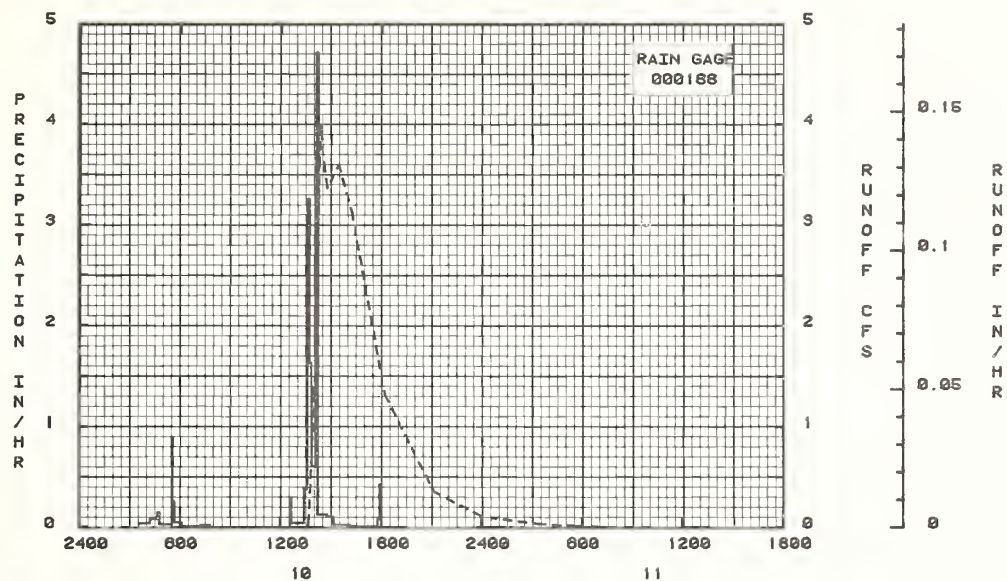
NOTES: Precipitation values obtained from two recording type rain gages, Nos. 185 and 188. STA AV based on 10 yr (1965-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED C-8 |       |        |        |        |        |       |       |        |       |        |        |     |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-----|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.328  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.022  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.004  | 0.0 |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.001  | 0.0 |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.018  | 0.0   | 0.0    | 0.0    | 0.0 |
| 10  | 0.0   | 0.0    | 0.628  | 0.0    | 0.0    | 0.0   | 0.0   | 0.093  | 0.0   | 0.0    | 0.0    | 0.0 |
| 11  | 0.0   | 0.0    | 0.013  | 0.014  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001 | 0.0    | 0.0    | 0.0 |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 20  | 0.0   | 0.001  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 21  | 0.0   | 0.067  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.001 | 0.004  | 0.0    | 0.0 |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.002  | 0.0    | 0.0 |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.096  | 0.0    | 0.0 |
| 29  | 0.0   |        | 0.0    | 0.078  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0 |
| 30  | 0.0   |        | 0.0    | 0.401  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.165  | 0.0    | 0.0 |
| 31  | 0.0   |        | 0.0    |        | 0.0    | 0.0   | 0.0   | 0.0    |       | 0.076  |        | 0.0 |
| MEAN  | 0.0   | 0.0024 | 0.0207 | 0.0164 | 0.0113 | 0.0   | 0.0   | 0.0036 | 0.0   | 0.0110 | 0.0002 | 0.0 |
| INCRS   | 0.0   | 0.059  | 0.560  | 0.430  | 0.305  | 0.0   | 0.0   | 0.097  | 0.001 | 0.299  | 0.004  | 0.0 |
| STA AV  | 0.004 | 0.007  | 0.228  | 0.102  | 0.130  | 0.106 | 0.048 | 0.141  | 0.159 | 0.264  | 0.012  | 0.0 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV based on 10 yr (1965-74) record period.

| 1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED C-8 |                  |          |          |                  |           |          |        |        |       |          |  |  |
|--|------------------|----------|----------|------------------|-----------|----------|--------|--------|-------|----------|--|--|
| ANTECEDENT CONDITIONS  |                  |          | RAINFALL |                  |           |          | RUNOFF |        |       |          |  |  |
| Date   | Rainfall         | Runoff   | Date     | Time             | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |  |
| Mo-Day   | (inches)         | (inches) | Mo-Day   | of Day           | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |  |
| EVENT OF MARCH 10 - 11, 1974                                 |                  |          |          |                  |           |          |        |        |       |          |  |  |
| 3-10   | RG 000188<br>0.0 | 0.0      | 3-10     | RG 000188<br>330 | 0.0       | 0.0      | 3-10   | 1338   | 0.0   | 0.0      |  |  |
|  |                  |          |          | 411              | 0.0439    | 0.03     |        | 1342   | 0.121 | 0.0002   |  |  |
|  |                  |          |          | 439              | 0.0857    | 0.07     |        | 1352   | 0.732 | 0.0027   |  |  |
|  |                  |          |          | 447              | 0.1500    | 0.09     |        | 1359   | 1.305 | 0.0070   |  |  |
|  |                  |          |          | 531              | 0.0273    | 0.11     |        | 1409   | 1.917 | 0.0168   |  |  |
| WATERSHED CONDITIONS:<br>Alfalfa planted 9-26-73.            |                  |          |          | 533              | 0.9000    | 0.14     |        | 1416   | 3.604 | 0.0285   |  |  |
|  |                  |          |          | 540              | 0.2571    | 0.17     |        | 1422   | 3.994 | 0.0423   |  |  |
|  |                  |          |          | 605              | 0.0480    | 0.19     |        | 1433   | 3.604 | 0.0676   |  |  |
|  |                  |          |          | 715              | 0.0086    | 0.20     |        | 1445   | 3.357 | 0.0930   |  |  |
|  |                  |          |          | 745              | 0.0200    | 0.21     |        | 1525   | 3.604 | 0.1773   |  |  |
|  |                  |          |          | 1233             | 0.0       | 0.21     |        | 1613   | 3.121 | 0.2751   |  |  |
|  |                  |          |          | 1239             | 0.3000    | 0.24     |        | 1813   | 1.305 | 0.4360   |  |  |
|  |                  |          |          | 1324             | 0.0400    | 0.27     |        | 2110   | 0.347 | 0.5246   |  |  |
|  |                  |          |          | 1335             | 0.3818    | 0.34     |        | 2400   | 0.112 | 0.5482   |  |  |
|  |                  |          |          | 1342             | 3.2571    | 0.72     | 3-11   | 321    | 0.033 | 0.5570   |  |  |
|  |                  |          |          | 1349             | 1.6286    | 0.91     |        | 558    | 0.011 | 0.5591   |  |  |
|  |                  |          |          | 1352             | 1.4000    | 0.98     |        | 803    | 0.004 | 0.5597   |  |  |
|  |                  |          |          | 1405             | 0.6000    | 1.11     |        | 956    | 0.0   | 0.5598   |  |  |
|  |                  |          |          | 1412             | 4.7143    | 1.66     |        |        |       |          |  |  |
|  |                  |          |          | 1447             | 0.1200    | 1.73     |        |        |       |          |  |  |
|  |                  |          |          | 1511             | 0.1000    | 1.77     |        |        |       |          |  |  |
|  |                  |          |          | 1609             | 0.0207    | 1.79     |        |        |       |          |  |  |
|  |                  |          |          | 1748             | 0.0061    | 1.80     |        |        |       |          |  |  |
|  |                  |          |          | 1755             | 0.0857    | 1.81     |        |        |       |          |  |  |
|  |                  |          |          | 1802             | 0.4286    | 1.86     |        |        |       |          |  |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.



EVENT OF MARCH 10 - 11, 1974  
CHICKASHA, OKLAHOMA WATERSHED C-8

CHICKASHA, OKLAHOMA WATERSHED R-1

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 25 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 17.76 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |      |       |       |       |       | CHICKASHA, OKLAHOMA WATERSHED R-1 |      |       |       |       |       |      |        |
|---|---|------|-------|-------|-------|-------|-----------------------------------|------|-------|-------|-------|-------|------|--------|
|   |   | Jan  | Feb   | Mar   | Apr   | May   | Jun                               | Jul  | Aug   | Sep   | Oct   | Nov   | Dec  | Annual |
| 1974                                      | P | 0.12 | 2.49  | 2.82  | 4.06  | 3.61  | 1.16                              |      |       |       |       |       |      |        |
|   | Q | 0.0  | 0.009 | 0.010 | 0.006 | 0.002 | 0.0                               |      |       |       |       |       |      |        |
| STA AV                                    | P | 0.77 | 1.03  | 1.94  | 3.05  | 3.63  | 3.55                              | 1.71 | 2.90  | 4.19  | 2.50  | 1.64  | 0.90 | 27.81  |
|   | Q | 0.0  | 0.001 | 0.003 | 0.013 | 0.011 | 0.027                             | 0.0  | 0.004 | 0.005 | 0.001 | 0.003 | 0.0  | 0.068  |

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was fertilized and sprig-sodded to bermuda in 20-inch rows in spring of 1972. Because of unfavorable weather conditions, a poor stand resulted. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Station was discontinued July 1, 1974. STA AV are for 1962-1974 record period, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   |     | DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED R-1 |  |
|--------|-----|------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|
|        | Day | Jan                          | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                                   |  |
|        | 1   | 0.03                         | 0.0  | 0.0  | 0.0  | 1.05 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 2   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 3   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 4   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.35 | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 5   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 6   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 7   | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 8   | 0.0                          | 0.0  | 1.38 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 9   | 0.06                         | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 10  | 0.0                          | 0.0  | 1.18 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 11  | 0.0                          | 0.0  | 0.0  | 1.09 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 12  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 13  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 14  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 15  | 0.0                          | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 16  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 17  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 18  | 0.0                          | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 19  | 0.02                         | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 20  | 0.0                          | 1.89 | 0.24 | 0.64 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 21  | 0.0                          | 0.51 | 0.0  | 0.0  | 0.66 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 22  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 23  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 24  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 25  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.84 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 26  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 27  | 0.01                         | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 28  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 29  | 0.0                          | 0.0  | 0.0  | 2.23 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 30  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
|        | 31  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.90 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |
| TOTAL  |     | 0.12                         | 2.49 | 2.82 | 4.06 | 3.61 | 1.16 |      |      |      |      |      |      |                                   |  |
| STA AV |     | 0.77                         | 1.03 | 1.94 | 3.05 | 3.63 | 3.55 | 1.71 | 2.90 | 4.19 | 2.50 | 1.64 | 0.90 |                                   |  |

NOTES: Precipitation values obtained from one recording rain gage, No. 189. STA AV are for 1962-74, part-year records included. Watershed was discontinued JULY 1, 1974.



| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-1 |     |        |        |        |       |       |     |       |       |       |       |     |
|---|-----|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-----|
| Day   | Jan | Feb    | Mar    | Apr    | May   | Jun   | Jul | Aug   | Sep   | Oct   | Nov   | Dec |
| 1   | 0.0 | 0.0    | 0.0    | 0.0    | 0.001 | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 2   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 3   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 4   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 5   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 6   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 7   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 8   | 0.0 | 0.0    | 0.004  | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 9   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 10  | 0.0 | 0.0    | 0.004  | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 11  | 0.0 | 0.0    | 0.0    | 0.001  | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 12  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 13  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 14  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 15  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 16  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 17  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 18  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 19  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 20  | 0.0 | 0.007  | 0.0    | 0.001  | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 21  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 22  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 23  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 24  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 25  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 26  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 27  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 28  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 29  | 0.0 |        | 0.0    | 0.003  | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 30  | 0.0 |        | 0.0    | 0.0    | 0.0   | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 31  | 0.0 |        | 0.0    |        | 0.0   |       | NR  | NR    |       | NR    |       | NR  |
| MEAN  | 0.0 | 0.0002 | 0.0002 | 0.0001 | 0.0   | 0.0   |     |       |       |       |       |     |
| INCHES  | 0.0 | 0.009  | 0.010  | 0.006  | 0.002 | 0.0   |     |       |       |       |       |     |
| STA AV  | 0.0 | 0.001  | 0.003  | 0.013  | 0.011 | 0.027 | 0.0 | 0.004 | 0.005 | 0.001 | 0.003 | 0.0 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.340183. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

## CHICKASHA, OKLAHOMA WATERSHED N-2

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 16 sec. N.; Long. 98 deg. 08 min. 34 sec. W.

AREA: 24.08 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |       |       |       |       |       | CHICKASAW, OKLAHOMA WATERSHED R-2 |       |       |       |       |       |       |        |
|---|---|-------|-------|-------|-------|-------|-----------------------------------|-------|-------|-------|-------|-------|-------|--------|
|   |   | Jan   | Feb   | Mar   | Apr   | May   | Jun                               | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
| 1974                                      | P | 0.09  | 2.24  | 2.57  | 3.43  | 3.10  | 1.10                              |       |       |       |       |       |       |        |
|   | Q | 0.0   | 0.025 | 0.015 | 0.006 | 0.007 | 0.0                               |       |       |       |       |       |       |        |
| STA AV                                    | P | 0.71  | 0.97  | 1.77  | 2.91  | 3.44  | 3.43                              | 1.63  | 2.74  | 3.96  | 2.35  | 1.58  | 0.85  | 26.33  |
|   | Q | 0.002 | 0.002 | 0.007 | 0.037 | 0.025 | 0.035                             | 0.001 | 0.023 | 0.026 | 0.007 | 0.008 | 0.004 | 0.177  |

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds E-1, N-3 and N-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Station was discontinued July 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) CHICKASHA, OKLAHOMA WATERSHED N-2 |      |      |      |      |      |      |      |      |      |      |      |      |  |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Day   | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |  |
| 1   | 0.01 | 0.0  | 0.0  | 0.0  | 1.10 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |  |
| 2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   |  |
| 3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | NR   | NR   | NR   | NR   | NR   |  |
| 4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | NR   | NR   | NR   | NR   | NR   |  |
| 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 8   | 0.0  | 0.0  | 1.40 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 9   | 0.06 | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 10  | 0.0  | 0.0  | 0.95 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 11  | 0.0  | 0.0  | 0.0  | 0.93 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 13  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 15  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 18  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 19  | 0.01 | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 20  | 0.0  | 1.75 | 0.20 | 0.53 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 21  | 0.0  | 0.42 | 0.0  | 0.0  | 0.52 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 22  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 25  | 0.0  | 0.0  | 0.0  | 0.0  | 0.61 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 27  | 0.01 | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 29  | 0.0  | 0.0  | 0.0  | 1.88 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 30  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.73 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |  |
| TOTAL   | 0.09 | 2.24 | 2.57 | 3.43 | 3.10 | 1.10 |      |      |      |      |      |      |  |
| STA AV  | 0.71 | 0.97 | 1.77 | 2.91 | 3.44 | 3.43 | 1.63 | 2.74 | 3.96 | 2.35 | 1.58 | 0.85 |  |

NOTES: Precipitation values obtained from one recording rain gage, No. 190. STA AV are for 1962-74, part-year records included. Station was discontinued July 1, 1974.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-2 |       |        |        |        |        |       |       |       |       |       |       |       |
|---|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.006  | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 8   | 0.0   | 0.0    | 0.007  | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 10  | 0.0   | 0.0    | 0.008  | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 11  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 20  | 0.0   | 0.025  | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 21  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 29  | 0.0   | 0.0    | 0.0    | 0.006  | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 30  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR    | NR    | NR    | NR    | NR    | NR    |
| MEAN  | 0.0   | 0.0009 | 0.0005 | 0.0002 | 0.0002 | 0.0   |       |       |       |       |       |       |
| INCRS   | 0.0   | 0.025  | 0.015  | 0.006  | 0.007  | 0.0   |       |       |       |       |       |       |
| STA AV  | 0.002 | 0.002  | 0.007  | 0.037  | 0.025  | 0.035 | 0.001 | 0.023 | 0.026 | 0.007 | 0.008 | 0.004 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.988441. STA AV are for 1962-74, part-year records included. Watershed was discontinued JULY 1, 1974.

## CHICKASAW, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., R. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 25.84 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |      |       |       |       |       | CRICKSAGE, OKLAHOMA WATERSHED R-3 |      |       |       |       |       |       |        |
|---|---|------|-------|-------|-------|-------|-----------------------------------|------|-------|-------|-------|-------|-------|--------|
|   |   | Jan  | Feb   | Mar   | Apr   | May   | Jun                               | Jul  | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
| 1974                                      | P | 0.09 | 2.18  | 2.49  | 3.32  | 3.24  | 1.12                              |      |       |       |       |       |       |        |
|   | Q | 0.0  | 0.006 | 0.005 | 0.001 | 0.002 | 0.0                               |      |       |       |       |       |       |        |
| STA AV                                    | P | 0.70 | 0.97  | 1.76  | 2.89  | 3.37  | 3.40                              | 1.59 | 2.69  | 3.91  | 2.35  | 1.55  | 0.83  | 26.01  |
|   | Q | 0.0  | 0.001 | 0.002 | 0.015 | 0.008 | 0.011                             | 0.0  | 0.010 | 0.012 | 0.004 | 0.004 | 0.001 | 0.068  |

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.40-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. Watershed was discontinued July 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974   |      | DAILY PRECIPITATION (inches) |      |      |      |      | CHICKASAW, OKLAHOMA WATERSHED R-3 |      |      |      |      |      |      |
|--------|------|------------------------------|------|------|------|------|-----------------------------------|------|------|------|------|------|------|
| Day    |      | Jan                          | Feb  | Mar  | Apr  | May  | Jun                               | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1      | 0.01 | 0.0                          | 0.0  | 0.0  | 0.0  | 1.09 | 0.0                               | 0.0  | NR   | NR   | NR   | NR   | NR   |
| 2      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | NR   | NR   | NR   | NR   | NR   |
| 3      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.50                              | 0.0  | NR   | NR   | NR   | NR   | NR   |
| 4      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.25 | NR   | NR   | NR   | NR   | NR   |
| 5      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 6      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.37                              | NR   | NR   | NR   | NR   | NR   | NR   |
| 7      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.02                              | NR   | NR   | NR   | NR   | NR   | NR   |
| 8      | 0.0  | 0.0                          | 1.35 | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 9      | 0.06 | 0.0                          | 0.02 | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 10     | 0.0  | 0.0                          | 0.93 | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 11     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.91 | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 12     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 13     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 14     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 15     | 0.0  | 0.02                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 16     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 17     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.23                              | NR   | NR   | NR   | NR   | NR   | NR   |
| 18     | 0.0  | 0.06                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 19     | 0.01 | 0.0                          | 0.0  | 0.05 | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 20     | 0.0  | 1.69                         | 0.19 | 0.51 | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 21     | 0.0  | 0.41                         | 0.0  | 0.0  | 0.0  | 0.55 | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 22     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 23     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.10 | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.03 | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 25     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.68 | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 26     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 27     | 0.01 | 0.0                          | 0.0  | 0.0  | 0.06 | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 28     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 29     | 0.0  | 0.0                          | 0.0  | 1.79 | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 30     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| 31     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.79 | 0.0  | 0.0                               | NR   | NR   | NR   | NR   | NR   | NR   |
| TOTAL  |      | 0.09                         | 2.18 | 2.49 | 3.32 | 3.24 | 1.12                              |      |      |      |      |      |      |
| STA AV |      | 0.70                         | 0.97 | 1.76 | 2.89 | 3.37 | 3.40                              | 1.59 | 2.69 | 3.91 | 2.35 | 1.55 | 0.83 |

NOTES: Precipitation values obtained from one recording rain gage, No. 191. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.



| 1974 HEAD DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED R-3 |     |        |        |       |        |       |     |       |       |       |       |       |
|---|-----|--------|--------|-------|--------|-------|-----|-------|-------|-------|-------|-------|
| Day   | Jan | Feb    | Mar    | Apr   | May    | Jun   | Jul | Aug   | Sep   | Oct   | Nov   | Dec   |
| 1   | 0.0 | 0.0    | 0.0    | 0.0   | 0.002  | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 2   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 3   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 4   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 5   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 6   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 7   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 8   | 0.0 | 0.0    | 0.002  | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 9   | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 10  | 0.0 | 0.0    | 0.003  | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 11  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 12  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 13  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 14  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 15  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 16  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 17  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 18  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 19  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 20  | 0.0 | 0.007  | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 21  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 22  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 23  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 24  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 25  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 26  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 27  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 28  | 0.0 | 0.0    | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 29  | 0.0 |        | 0.0    | 0.001 | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 30  | 0.0 |        | 0.0    | 0.0   | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR    |
| 31  | 0.0 |        | 0.0    |       | 0.0    |       | NR  | NR    |       | NR    |       | NR    |
| HEAD  | 0.0 | 0.0002 | 0.0002 | 0.0   | 0.0001 | 0.0   |     |       |       |       |       |       |
| IRCHES  | 0.0 | 0.006  | 0.005  | 0.001 | 0.002  | 0.0   |     |       |       |       |       |       |
| STA AV  | 0.0 | 0.001  | 0.002  | 0.015 | 0.008  | 0.011 | 0.0 | 0.010 | 0.012 | 0.004 | 0.004 | 0.001 |

NOTES: To convert discharge in CFS to IER/DAY, multiply by 0.921117. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

## CHICKASHA, OKLAHOMA WATERSHED R-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. R. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 21 sec. W.

AREA: 18.12 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches) |   |      |       |       |       |       | CRICKASHA, OKLAHOMA |      |       |       |       |       |      | WATERSEED R-4 |  |
|---|---|------|-------|-------|-------|-------|---------------------|------|-------|-------|-------|-------|------|---------------|--|
|   |   | Jan  | Feb   | Mar   | Apr   | May   | Jun                 | Jul  | Aug   | Sep   | Oct   | Nov   | Dec  | Annual        |  |
| 1974                                      | P | 0.10 | 2.58  | 2.98  | 3.80  | 2.93  | 1.18                |      |       |       |       |       |      |               |  |
|   | Q | 0.0  | 0.014 | 0.005 | 0.002 | 0.002 | 0.0                 |      |       |       |       |       |      |               |  |
| STA AV                                    | P | 0.74 | 0.99  | 1.78  | 3.04  | 3.64  | 3.60                | 1.64 | 2.80  | 4.11  | 2.46  | 1.60  | 0.88 | 27.28         |  |
|   | Q | 0.0  | 0.001 | 0.001 | 0.046 | 0.012 | 0.023               | 0.0  | 0.016 | 0.014 | 0.004 | 0.004 | 0.0  | 0.121         |  |

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds W-1, W-2 and W-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. Station was discontinued JULY 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED R-4 |  |  |  |  |  |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|--|--|--|--|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |                                   |  |  |  |  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.63 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 8                                 | 0.0  | 0.0  | 1.56 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 9                                 | 0.06 | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 10                                | 0.0  | 0.0  | 1.18 | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.15 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 15                                | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 18                                | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 19                                | 0.02 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 20                                | 0.0  | 1.95 | 0.23 | 0.60 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 21                                | 0.0  | 0.56 | 0.0  | 0.0  | 0.50 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.62 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 1.98 | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.71 | 0.0  | NR   | NR   | NR   | NR   | NR   | NR   | NR   |                                   |  |  |  |  |  |  |
| TOTAL                             |      | 0.10 | 2.58 | 2.98 | 3.80 | 2.93 | 1.18 |      |      |      |      |      |      |                                   |  |  |  |  |  |  |
| STA AV                            |      | 0.74 | 0.99 | 1.78 | 3.04 | 3.64 | 3.60 | 1.64 | 2.80 | 4.11 | 2.46 | 1.60 | 0.88 |                                   |  |  |  |  |  |  |

NOTES: Precipitation obtained from one recording rain gage, No. 192. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

| 1974 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED R-4 |     |        |        |        |        |       |     |       |       |       |       |     |
|---|-----|--------|--------|--------|--------|-------|-----|-------|-------|-------|-------|-----|
| Day   | Jan | Feb    | Mar    | Apr    | May    | Jun   | Jul | Aug   | Sep   | Oct   | Nov   | Dec |
| 1   | 0.0 | 0.0    | 0.0    | 0.0    | 0.002  | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 2   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 3   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 4   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 5   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 6   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 7   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 8   | 0.0 | 0.0    | 0.002  | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 9   | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 10  | 0.0 | 0.0    | 0.002  | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 11  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 12  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 13  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 14  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 15  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 16  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 17  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 18  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 19  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 20  | 0.0 | 0.011  | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 21  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 22  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 23  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 24  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 25  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 26  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 27  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 28  | 0.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 29  | 0.0 |        | 0.0    | 0.002  | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 30  | 0.0 |        | 0.0    | 0.0    | 0.0    | 0.0   | NR  | NR    | NR    | NR    | NR    | NR  |
| 31  | 0.0 |        | 0.0    |        | 0.0    |       | NR  | NR    |       | NR    |       | NR  |
| MEAN  | 0.0 | 0.0004 | 0.0001 | 0.0001 | 0.0001 | 0.0   |     |       |       |       |       |     |
| INCRBS  | 0.0 | 0.014  | 0.005  | 0.002  | 0.002  | 0.0   |     |       |       |       |       |     |
| STA AV  | 0.0 | 0.001  | 0.001  | 0.046  | 0.012  | 0.023 | 0.0 | 0.016 | 0.014 | 0.004 | 0.004 | 0.0 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.313557. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

## CHICKASHA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 21 sec. N.; Long. 97 deg. 47 min. 25 sec. W.

AREA: 23.72 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       |         |       | CHICKASHA, OKLAHOMA WATERSHED R-5 |       |                     |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---------|-------|-----------------------------------|-------|---------------------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun   | Jul     | Aug   | Sep                               | Oct   | Nov                 | Dec   | Annual |       |        |       |
| 1974  | P | 0.15              | 1.80  | 1.59   | 4.02  | 2.67    | 1.03  | 0.68    | 5.02  | 3.51                              | 4.79  | 1.64                | 1.48  | 28.38  |       |        |       |
|   | Q | 0.0               | 0.011 | 0.063  | 0.400 | 0.256   | 0.0   | 0.0     | 0.028 | 0.0                               | 0.111 | 0.013               | 0.0   | 0.881  |       |        |       |
| STA AV  | P | 0.96              | 1.14  | 2.21   | 3.08  | 4.35    | 2.81  | 2.40    | 2.84  | 4.41                              | 3.72  | 1.68                | 1.10  | 30.69  |       |        |       |
|   | Q | 0.040             | 0.020 | 0.272  | 0.206 | 0.378   | 0.295 | 0.036   | 0.004 | 0.060                             | 0.252 | 0.120               | 0.028 | 1.711  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |         |       |                                   |       |                     |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours |       | 12 Hours                          |       | Time Interval 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.  | Date                              | Vol.  | Date                | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 0.325 | 4-29   | 0.252 | 4-29    | 0.356 | 4-29    | 0.396 | 4-29                              | 0.399 | 4-30                | 0.399 | 4-30   | 0.646 | 4-25   | 0.656 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |         |       |                                   |       |                     |       |        |       |        |       |
|   |   | 5-24              | 2.637 | 5-24   | 1.576 | 5-24    | 1.760 | 5-24    | 1.799 | 5-24                              | 1.800 | 5-24                | 1.800 | 5-22   | 1.806 | 5-24   | 2.035 |
|   |   | 1973              |       | 1973   |       | 1973    |       | 1973    |       | 1973                              |       | 1973                |       | 1973   |       | 1973   |       |

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1974 was good, however, entire area was slightly overgrazed during the spring and summer. The vegetative cover in mid-Nov. 1974, based on 25 clipped samples uniformly spaced, averaged 1868 pounds of standing grass, 224 pounds of weeds, and 1791 pounds of mulch per acre. Prior to Oct. 1970 this watershed was within the same pasture area as Watershed R-6, however, was subjected to a slightly heavier grazing rate. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1; maps - topography, 1966, p. 69.42-3 of foregoing reference; revised composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |     |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED R-5 |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 1   | 0.01 | 0.0  | 0.0  | 0.0  | 1.13 | 0.0  | 0.0  | 0.39 | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.23 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.04 | 0.0  | 0.0  | 0.79 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.10                              |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.06 | 0.0  | 0.12 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.12 | 0.05 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 8   | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 9   | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.65 | 0.0  | 0.0  | 0.32 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 10  | 0.0  | 0.0  | 1.08 | 0.0  | 0.0  | 0.0  | 0.0  | 1.88 | 0.0  | 0.0  | 0.21 | 0.77                              |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 11  | 0.0  | 0.0  | 0.0  | 1.28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22                              |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 13  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 15  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 18  | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 19  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 20  | 0.0  | 0.73 | 0.33 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 21  | 0.0  | 0.66 | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 22  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.16 | 0.90 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 25  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  | 0.0  | 0.15 | 0.36 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.05 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 27  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.78 | 0.0  | 0.12 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.83 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 29  | 0.0  | 0.0  | 0.0  | 2.67 | 0.0  | 0.0  | 0.42 | 0.0  | 0.0  | 0.0  | 0.04 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 30  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.79 | 0.0  | 0.17                              |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   | 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.51 | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.22                              |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |     | 0.15 | 1.80 | 1.59 | 4.02 | 2.67 | 1.03 | 0.68 | 5.02 | 3.51 | 4.79 | 1.64 | 1.48                              |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |     | 0.96 | 1.14 | 2.21 | 3.08 | 4.35 | 2.81 | 2.40 | 2.84 | 4.41 | 3.72 | 1.68 | 1.10                              |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV based on 9 yr (1966-74) record period.



| 1974 NEAR DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED R-5 |       |        |        |        |        |       |       |        |       |        |        |       |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec   |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.245  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.011  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.012  | 0.0   |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0   |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 10  | 0.0   | 0.0    | 0.062  | 0.0    | 0.0    | 0.0   | 0.0   | 0.028  | 0.0   | 0.0    | 0.0    | 0.0   |
| 11  | 0.0   | 0.0    | 0.001  | 0.0 T  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 21  | 0.0   | 0.010  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 29  | 0.0   | 0.0    | 0.0    | 0.360  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 30  | 0.0   | 0.0    | 0.0    | 0.039  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.108  | 0.0    | 0.0   |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.002 | 0.002  | 0.0    | 0.0   |
| MEAN  | 0.0   | 0.0004 | 0.0020 | 0.0133 | 0.0082 | 0.0   | 0.0   | 0.0009 | 0.0   | 0.0036 | 0.0004 | 0.0   |
| INCRS   | 0.0   | 0.011  | 0.063  | 0.400  | 0.256  | 0.0   | 0.0   | 0.028  | 0.0   | 0.111  | 0.013  | 0.0   |
| STA AV  | 0.040 | 0.020  | 0.272  | 0.206  | 0.378  | 0.295 | 0.036 | 0.004  | 0.060 | 0.252  | 0.120  | 0.028 |

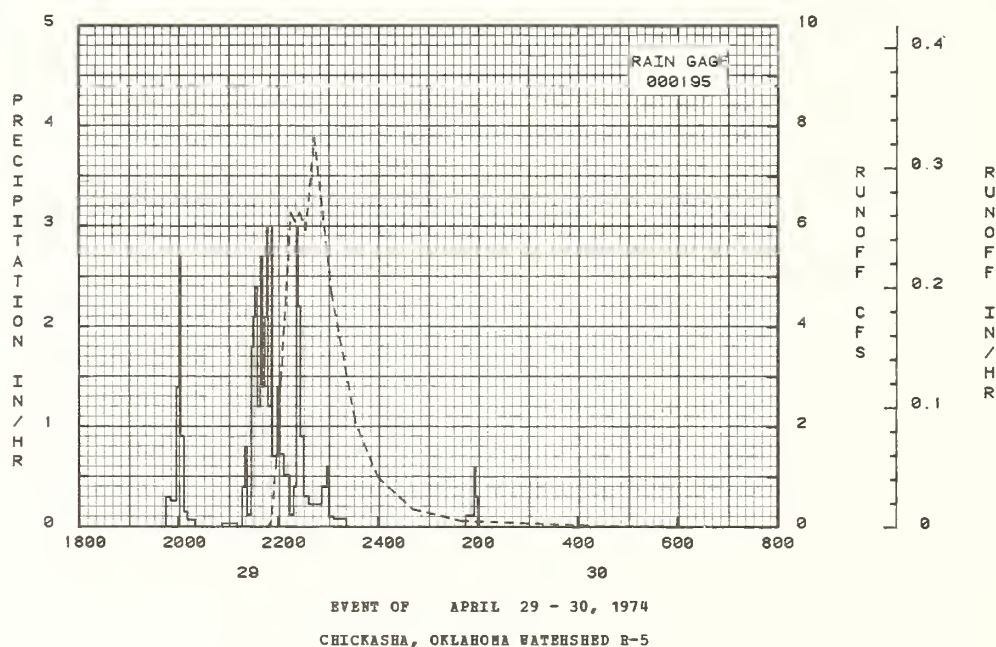
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV based on 9 yr (1966-74) record period.

| 1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED R-5  |          |          |           |        |           |          |        |        |       |          |  |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL  |        |           |          |        |        |       |          |  |
| Date  | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF APRIL 29 - 30, 1974  |          |          |           |        |           |          |        |        |       |          |  |
| RG 000195   |          |          | RG 000195 |        |           |          |        |        |       |          |  |
| 4-29  | 0.74     | 0.0      | 4-29      | 1945   | 0.0       | 0.0      | 4-29   | 2148   | 0.0   | 0.0      |  |
|   |          |          |           | 1947   | 0.3000    | 0.01     |        | 2152   | 0.121 | 0.0002   |  |
|   |          |          |           | 1951   | 0.3000    | 0.03     |        | 2158   | 1.297 | 0.0031   |  |
|   |          |          |           | 1958   | 0.2571    | 0.06     |        | 2204   | 3.094 | 0.0123   |  |
|   |          |          |           | 2001   | 1.4000    | 0.13     |        | 2215   | 6.269 | 0.0482   |  |
| WATERSHED CONDITIONS:<br>100% rangeland, native grass<br>rangeland, continuously<br>grazed by beef cattle<br>during recent years. |          |          |           | 2003   | 2.7000    | 0.22     |        | 2220   | 6.094 | 0.0697   |  |
|   |          |          |           | 2007   | 0.9000    | 0.28     |        | 2226   | 6.269 | 0.0956   |  |
|   |          |          |           | 2011   | 0.1500    | 0.29     |        | 2233   | 5.923 | 0.1253   |  |
|   |          |          |           | 2020   | 0.0667    | 0.30     |        | 2243   | 7.775 | 0.1730   |  |
|   |          |          |           | 2053   | 0.0       | 0.30     |        | 2304   | 4.657 | 0.2640   |  |
|   |          |          |           | 2111   | 0.0333    | 0.31     |        | 2333   | 2.077 | 0.3320   |  |
|   |          |          |           | 2117   | 0.0       | 0.31     |        | 2400   | 0.987 | 0.3609   |  |
|   |          |          |           | 2120   | 0.4000    | 0.33     | 4-30   | 42     | 0.346 | 0.3804   |  |
|   |          |          |           | 2123   | 0.8000    | 0.37     |        | 140    | 0.121 | 0.3898   |  |
|   |          |          |           | 2128   | 0.1200    | 0.38     |        | 422    | 0.020 | 0.3978   |  |
|   |          |          |           | 2130   | 1.8000    | 0.44     |        | 723    | 0.003 | 0.3992   |  |
|   |          |          |           | 2132   | 2.1000    | 0.51     |        | 1200   | 0.0   | 0.3995   |  |
|   |          |          |           | 2135   | 2.4000    | 0.63     |        |        |       |          |  |
|   |          |          |           | 2139   | 1.2000    | 0.71     |        |        |       |          |  |
|   |          |          |           | 2141   | 2.7000    | 0.80     |        |        |       |          |  |
|   |          |          |           | 2144   | 1.4000    | 0.87     |        |        |       |          |  |
|   |          |          |           | 2146   | 2.1000    | 0.94     |        |        |       |          |  |
|   |          |          |           | 2148   | 3.0000    | 1.04     |        |        |       |          |  |
|   |          |          |           | 2152   | 1.2000    | 1.12     |        |        |       |          |  |
|   |          |          |           | 2153   | 2.9980    | 1.17     |        |        |       |          |  |
|   |          |          |           | 2159   | 0.7000    | 1.24     |        |        |       |          |  |
|   |          |          |           | 2202   | 1.4000    | 1.31     |        |        |       |          |  |
|   |          |          |           | 2207   | 0.7200    | 1.37     |        |        |       |          |  |
|   |          |          |           | 2214   | 0.5143    | 1.43     |        |        |       |          |  |
|   |          |          |           | 2219   | 0.1200    | 1.44     |        |        |       |          |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.

| 1974  | SELECTED RUNOFF EVENT |          |          |        |           | CHICKASHA, OKLAHOMA WATERSHED H-5 |        |        |       |          |  |
|---|-----------------------|----------|----------|--------|-----------|-----------------------------------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS                                   |                       |          | RAINFALL |        |           | RUNOFF                            |        |        |       |          |  |
| Date  | Rainfall              | Runoff   | Date     | Time   | Intensity | Acc.                              | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day  | (inches)              | (inches) | Mo-Day   | of Day | (in/hr)   | (inches)                          | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF      APRIL      29 - 30, 1974      (CONTINUED) |                       |          |          |        |           |                                   |        |        |       |          |  |
|   |                       |          | 4-29     | 2222   | 0.4000    | 1.46                              |        |        |       |          |  |
|   |                       |          |          | 2224   | 3.0000    | 1.56                              |        |        |       |          |  |
|   |                       |          |          | 2227   | 2.2000    | 1.67                              |        |        |       |          |  |
|   |                       |          |          | 2231   | 0.9000    | 1.73                              |        |        |       |          |  |
|   |                       |          |          | 2237   | 0.3000    | 1.76                              |        |        |       |          |  |
|   |                       |          |          | 2245   | 0.2250    | 1.79                              |        |        |       |          |  |
|   |                       |          |          | 2253   | 0.2250    | 1.82                              |        |        |       |          |  |
|   |                       |          |          | 2258   | 0.4000    | 1.86                              |        |        |       |          |  |
|   |                       |          |          | 2301   | 0.6000    | 1.88                              |        |        |       |          |  |
|   |                       |          |          | 2307   | 0.1000    | 1.89                              |        |        |       |          |  |
|   |                       |          |          | 2322   | 0.0800    | 1.91                              |        |        |       |          |  |
|   |                       |          | 4-30     | 146    | 0.0       | 1.91                              |        |        |       |          |  |
|   |                       |          |          | 151    | 0.1200    | 1.92                              |        |        |       |          |  |
|   |                       |          |          | 156    | 0.1200    | 1.93                              |        |        |       |          |  |
|   |                       |          |          | 158    | 0.6000    | 1.95                              |        |        |       |          |  |
|   |                       |          |          | 200    | 0.3000    | 1.96                              |        |        |       |          |  |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



## CHICKASHA, OKLAHOMA WATERSHED H-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 18 sec. N.; Long. 97 deg. 47 min. 20 sec. W.

AREA: 27.22 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CHICKASHA, OKLAHOMA WATERSHED H-6 |   |       |       |       |       |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-----------------------------------|---|-------|-------|-------|-------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                               | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |
| 1974  | P | 0.14              | 1.79  | 1.56   | 4.01  | 2.68    | 0.99                              | 0.67                                      | 5.06  | 3.62  | 4.75  | 1.64  | 1.47  | 28.38  |       |
|   | Q | 0.0               | 0.032 | 0.062  | 0.361 | 0.178   | 0.000                             | 0.0                                       | 0.097 | 0.0   | 0.094 | 0.016 | 0.0   | 0.840  |       |
| STA AV  | P | 0.96              | 1.15  | 2.18   | 3.03  | 4.39    | 2.78                              | 2.39                                      | 2.84  | 4.45  | 3.66  | 1.69  | 1.09  | 30.60  |       |
|   | Q | 0.015             | 0.015 | 0.233  | 0.225 | 0.443   | 0.259                             | 0.034                                     | 0.023 | 0.076 | 0.238 | 0.106 | 0.015 | 1.682  |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                   |   |       |       |       |       |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                   | Maximum Volume for Selected Time Interval |       |       |       |       |       |        |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                              | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 0.344 | 4-29   | 0.234 | 4-29    | 0.315                             | 4-29                                      | 0.334 | 4-30  | 0.335 | 4-30  | 0.336 | 4-30   | 0.513 |
|   |   |                   |       |        |       |         |                                   |   |       |       |       |       |       | 4-24   | 0.513 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                   |   |       |       |       |       |       |        |       |
|   |   | 5-24              | 3.829 | 5-24   | 1.914 | 5-24    | 2.048                             | 5-24                                      | 2.060 | 5-24  | 2.060 | 5-23  | 2.060 | 5-22   | 2.116 |
|   |   | 1973              |       | 1973   |       | 1973    |                                   | 1973                                      |       | 1973  |       | 1973  |       | 1973   | 1973  |

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good to excellent, however, entire area was slightly overgrazed throughout the year. The vegetative cover in mid-Nov. 1974, based on 25 uniformly spaced clipped samples, averaged 1905 pounds of standing grass, 286 pounds of weeds, and 1400 pounds of mulch. This watershed was in the same pasture area as Watershed H-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | CHICKASHA, OKLAHOMA WATERSHED H-6 |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   | Day  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 1.15 | 0.0  | 0.0  | 0.44 | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.78 | 0.0  | 0.22 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.05 | 0.0  | 0.0  | 0.82 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.10                              |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.46 | 0.0  | 0.09 | 0.0  | 0.11 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.11 | 0.05 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                 | 0.0  | 0.0  | 0.19 | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                 | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.59 | 0.0  | 0.0  | 0.29 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.87 | 0.0  | 0.0  | 0.22 | 0.77                              |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                | 0.0  | 0.0  | 0.0  | 1.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23                              |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.99 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                | 0.0  | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                | 0.0  | 0.72 | 0.34 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                | 0.0  | 0.69 | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.16 | 0.88 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.86 | 0.0  | 0.0  | 0.0  | 0.17 | 0.35 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.05 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.80 | 0.0  | 0.14 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.66 | 0.0  | 0.0  | 0.39 | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0                               |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.76 | 0.0  | 0.17                              |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.20                              |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL                             |      | 0.14 | 1.79 | 1.56 | 4.01 | 2.68 | 0.99 | 0.67 | 5.06 | 3.62 | 4.75 | 1.64 | 1.47                              |  |  |  |  |  |  |  |  |  |  |  |  |
| STA AV                            |      | 0.96 | 1.15 | 2.18 | 3.03 | 4.39 | 2.78 | 2.39 | 2.84 | 4.45 | 3.66 | 1.69 | 1.09                              |  |  |  |  |  |  |  |  |  |  |  |  |

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV based on 9 yr (1966-74) record period.

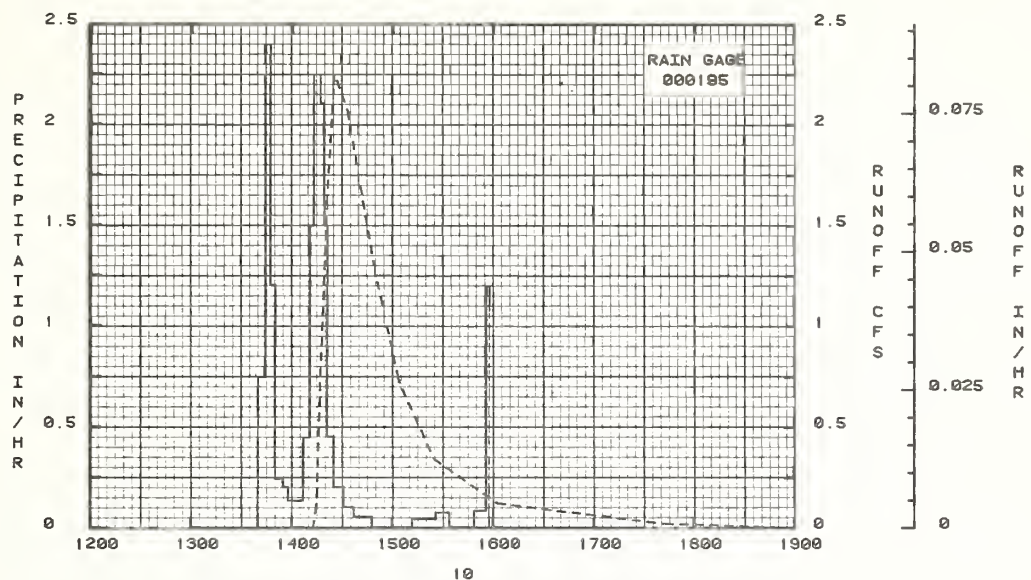
| 1974 BEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-6 |       |        |        |        |        |       |       |        |       |        |        |       |
|---|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun   | Jul   | Aug    | Sep   | Oct    | Nov    | Dec   |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.203  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.018  | 0.0   |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0 T  | 0.0   |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 T | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.016  | 0.0   | 0.0    | 0.0    | 0.0   |
| 10  | 0.0   | 0.0    | 0.070  | 0.0    | 0.0    | 0.0   | 0.0   | 0.095  | 0.0   | 0.0    | 0.0    | 0.0   |
| 11  | 0.0   | 0.0    | 0.0    | 0.030  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 20  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 21  | 0.0   | 0.036  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.008  | 0.0    | 0.0   |
| 29  | 0.0   |        | 0.0    | 0.370  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0   |
| 30  | 0.0   |        | 0.0    | 0.013  | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.098  | 0.0    | 0.0   |
| 31  | 0.0   |        | 0.0    |        | 0.0    |       | 0.0   | 0.0    |       | 0.0 T  |        | 0.0   |
| BEAN  | 0.0   | 0.0013 | 0.0023 | 0.0138 | 0.0066 | 0.0   | 0.0   | 0.0036 | 0.0   | 0.0035 | 0.0006 | 0.0   |
| INCRS   | 0.0   | 0.032  | 0.062  | 0.361  | 0.178  | 0.000 | 0.0   | 0.097  | 0.0   | 0.094  | 0.016  | 0.0   |
| STA AV  | 0.015 | 0.015  | 0.233  | 0.225  | 0.443  | 0.259 | 0.034 | 0.023  | 0.076 | 0.238  | 0.106  | 0.015 |

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.874418. STA AV based on 9 yr (1966-74) record period

| 1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-6 |          |          |           |        |           |          |        |        |       |
|--|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL  |        |           | RUNOFF   |        |        |       |
| Date   | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  |
| Mo-Day   | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) |
| EVENT OF MARCH 10, 1974                                      |          |          |           |        |           |          |        |        |       |
| RG 000195  |          |          | RG 000195 |        |           |          |        |        |       |
| 3-10   | 0.35     | 0.0      | 3-10      | 1340   | 0.0       | 0.0      | 3-10   | 1413   | 0.0   |
|  |          |          |           | 1344   | 0.7500    | 0.05     |        | 1415   | 0.120 |
|  |          |          |           | 1347   | 2.4000    | 0.17     |        | 1417   | 0.723 |
|  |          |          |           | 1350   | 1.2000    | 0.23     |        | 1421   | 1.648 |
|  |          |          |           | 1355   | 0.2400    | 0.25     |        | 1425   | 2.247 |
| WATERSHED CONDITIONS:  |          |          |           | 1358   | 0.2000    | 0.26     |        | 1433   | 2.064 |
| 100% rangeland, native grass                                 |          |          |           | 1407   | 0.1333    | 0.28     |        | 1449   | 1.288 |
| continuously grazed by beef                                  |          |          |           | 1411   | 0.4500    | 0.31     |        | 1504   | 0.723 |
| cattle during recent years.                                  |          |          |           | 1413   | 1.5000    | 0.36     |        | 1525   | 0.343 |
|  |          |          |           | 1417   | 2.2500    | 0.51     |        | 1603   | 0.120 |
|  |          |          |           | 1419   | 2.1000    | 0.58     |        | 1743   | 0.020 |
|  |          |          |           | 1421   | 1.5000    | 0.63     |        | 1953   | 0.003 |
|  |          |          |           | 1425   | 0.4500    | 0.66     |        | 2400   | 0.0   |
|  |          |          |           | 1431   | 0.2000    | 0.68     |        |        |       |
|  |          |          |           | 1437   | 0.1000    | 0.69     |        |        |       |
|  |          |          |           | 1448   | 0.0545    | 0.70     |        |        |       |
|  |          |          |           | 1512   | 0.0       | 0.70     |        |        |       |
|  |          |          |           | 1526   | 0.0429    | 0.71     |        |        |       |
|  |          |          |           | 1534   | 0.0750    | 0.72     |        |        |       |
|  |          |          |           | 1549   | 0.0       | 0.72     |        |        |       |
|  |          |          |           | 1556   | 0.0857    | 0.73     |        |        |       |
|  |          |          |           | 1558   | 1.2000    | 0.77     |        |        |       |

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.





EVENT OF MARCH 10, 1974  
CHICKASHA, OKLAHOMA WATERSHED R-6

## CHICKASAW, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 R., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 04 min. 58 sec. N.; Long. 97 deg. 47 min. 27 sec. W.

AREA: 19.19 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       | CHICKASAW, OKLAHOMA WATERSHED R-7 |       |   |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|-----------------------------------|-------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May                               | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.13              | 1.75  | 1.49   | 3.89  | 2.68                              | 1.01  | 0.69                                      | 4.99  | 3.75  | 4.72  | 1.68  | 1.45  | 28.23  |       |        |       |
|   | Q | 0.0               | 0.365 | 0.342  | 1.360 | 0.557                             | 0.065 | 0.0                                       | 1.069 | 0.247 | 1.569 | 0.402 | 0.084 | 6.060  |       |        |       |
| STA AV  | P | 0.93              | 1.08  | 2.09   | 2.95  | 4.26                              | 2.78  | 2.32                                      | 2.84  | 4.31  | 3.50  | 1.61  | 1.05  | 29.70  |       |        |       |
|   | Q | 0.142             | 0.109 | 0.415  | 0.717 | 1.043                             | 0.703 | 0.280                                     | 0.301 | 0.712 | 0.928 | 0.364 | 0.080 | 5.793  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |                                   |       |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours                           |       | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date                              | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 1.143 | 4-29   | 0.770 | 4-29                              | 0.979 | 4-29                                      | 1.069 | 10-30 | 1.118 | 4-30  | 1.189 | 4-30   | 1.624 | 10-27  | 1.881 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |                                   |       |   |       |       |       |       |       |        |       |        |       |
|   |   | 5-24              | 5.059 | 5-24   | 2.185 | 5-24                              | 2.311 | 5-24                                      | 2.320 | 5-24  | 2.320 | 10-30 | 2.362 | 11-10  | 2.988 | 5-24   | 3.705 |
|   |   | 1973              |       | 1973   |       | 1973                              |       | 1973                                      |       | 1973  |       | 1972  |       | 1972   |       | 1973   |       |

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover mid-Nov. 1974 based on 25 uniformly spaced clipped samples, averaged 342 pounds of standing grass, 118 pounds of weeds, and 296 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed R-8, however, it was enclosed by separate fence in order to implement an improved management program. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.44-1 and 69.44-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. Precipitation and runoff records began July 1, 1966. STA AV based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CHICKASAW, OKLAHOMA WATERSHED R-7 |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |      |
| 1                                 | 0.01 | 0.0  | 0.0  | 0.0  | 1.18 | 0.0  | 0.0  | 0.35 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.86 | 0.0  | 0.20 | 0.0  | 0.0  |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.23 | 0.0  | 0.04 | 0.0  | 0.0  | 0.85 | 0.0  | 0.0  |
| 4                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.10 |
| 6                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.50 | 0.0  | 0.09 | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.08 | 0.04 | 0.0  | 0.0  |
| 8                                 | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9                                 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.78 | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  |
| 10                                | 0.0  | 0.0  | 1.04 | 0.0  | 0.0  | 0.0  | 0.0  | 1.79 | 0.0  | 0.0  | 0.22 | 0.0  | 0.76 |
| 11                                | 0.0  | 0.0  | 0.0  | 1.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.0  | 0.0  | 0.0  |
| 15                                | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.03 | 0.0  | 0.0  | 0.0  | 0.0  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18                                | 0.0  | 0.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |
| 20                                | 0.0  | 0.70 | 0.31 | 0.03 | 0.0  | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  |
| 21                                | 0.0  | 0.69 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.19 | 0.90 | 0.0  | 0.0  | 0.0  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.82 | 0.0  | 0.0  | 0.0  | 0.16 | 0.32 | 0.0  | 0.0  | 0.0  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.04 | 0.0  | 0.0  | 0.0  |
| 27                                | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.73 | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.81 | 0.0  | 0.0  | 0.0  |
| 29                                | 0.0  | 0.0  | 0.0  | 2.54 | 0.0  | 0.0  | 0.36 | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.82 | 0.0  | 0.15 | 0.0  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.54 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.26 | 0.0  |
| TOTAL                             | 0.13 | 1.75 | 1.49 | 3.89 | 2.68 | 1.01 | 0.69 | 4.99 | 3.75 | 4.72 | 1.68 | 1.45 |      |
| STA AV                            | 0.93 | 1.08 | 2.09 | 2.95 | 4.26 | 2.78 | 2.32 | 2.84 | 4.31 | 3.50 | 1.61 | 1.05 |      |

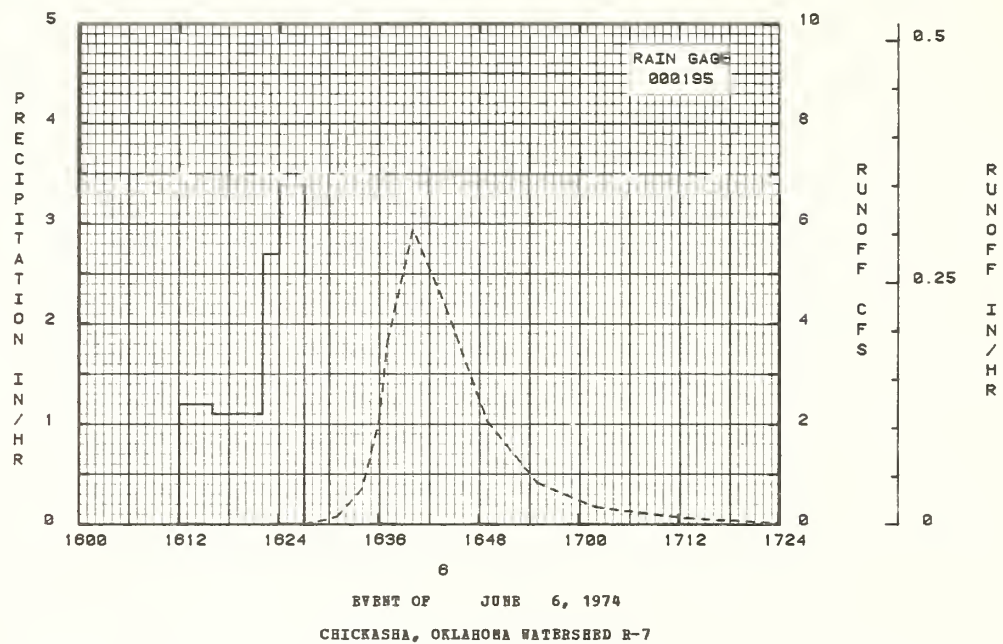
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV based on 9 yr (1966-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-7 |       |        |        |        |        |        |       |        |        |        |        |        |
|---|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.0   | 0.0    | 0.0    | 0.0    | 0.446  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.065  | 0.0    | 0.021  | 0.0    |
| 3   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.260  | 0.0    |
| 4   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.001  | 0.0    |
| 5   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.052  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.314  | 0.0    | 0.0    | 0.009  | 0.0    |
| 10  | 0.0   | 0.0    | 0.276  | 0.0    | 0.0    | 0.0    | 0.0   | 0.548  | 0.0    | 0.0    | 0.033  | 0.029  |
| 11  | 0.0   | 0.0    | 0.0    | 0.233  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.039  |
| 12  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 13  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.013  | 0.0    | 0.0    | 0.0    |
| 16  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.020  | 0.0    | 0.0    | 0.0    |
| 17  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 18  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20  | 0.0   | 0.020  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21  | 0.0   | 0.274  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 24  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.089  | 0.001  | 0.0    | 0.0    |
| 25  | 0.0   | 0.0    | 0.0    | 0.0    | 0.003  | 0.0    | 0.0   | 0.0    | 0.012  | 0.029  | 0.0    | 0.0    |
| 26  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.292  | 0.0    | 0.0    |
| 29  | 0.0   | 0.0    | 0.0    | 0.852  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30  | 0.0   | 0.0    | 0.0    | 0.012  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.902  | 0.0    | 0.0    |
| 31  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.041  | 0.0    | 0.0    |
| MEAN  | 0.0   | 0.0105 | 0.0089 | 0.0366 | 0.0145 | 0.0017 | 0.0   | 0.0278 | 0.0066 | 0.0408 | 0.0108 | 0.0022 |
| INCHES  | 0.0   | 0.365  | 0.342  | 1.360  | 0.557  | 0.065  | 0.0   | 1.069  | 0.247  | 1.569  | 0.402  | 0.084  |
| STA AV  | 0.142 | 0.109  | 0.415  | 0.717  | 1.043  | 0.703  | 0.280 | 0.301  | 0.712  | 0.928  | 0.364  | 0.080  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA AV based on 9 yr (1966-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED R-7 |          |          |          |        |           |          |        |        |       |          |
|--|----------|----------|----------|--------|-----------|----------|--------|--------|-------|----------|
| ANTECEDENT CONDITIONS  |          |          | RAINFALL |        |           |          | RUNOFF |        |       |          |
| Date   | Rainfall | Runoff   | Date     | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |
| Mo-Day   | (inches) | (inches) | Mo-Day   | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |
| EVENT OF JUNE 6, 1974  |          |          |          |        |           |          |        |        |       |          |
| RG 000195  |          |          |          |        |           |          |        |        |       |          |
| 6- 6   | 0.0      | 0.0      | 6- 6     | 1612   | 0.0       | 0.0      | 6- 6   | 1627   | 0.0   | 0.0      |
|  |          |          |          | 1616   | 1.2000    | 0.08     |        | 1631   | 0.153 | 0.0003   |
|  |          |          |          | 1622   | 1.1000    | 0.19     |        | 1634   | 0.721 | 0.0014   |
|  |          |          |          | 1624   | 2.7000    | 0.28     |        | 1636   | 2.058 | 0.0038   |
|  |          |          |          | 1627   | 3.4000    | 0.45     |        | 1637   | 3.665 | 0.0062   |
| WATERSHED CONDITIONS:  |          |          |          |        |           |          |        | 1640   | 5.875 | 0.0186   |
| Range condition class during                                 |          |          |          |        |           |          |        | 1644   | 4.331 | 0.0361   |
| the year was poor to fair.                                   |          |          |          |        |           |          |        | 1649   | 2.058 | 0.0499   |
|  |          |          |          |        |           |          |        | 1655   | 0.818 | 0.0573   |
|  |          |          |          |        |           |          |        | 1702   | 0.342 | 0.0608   |
|  |          |          |          |        |           |          |        | 1713   | 0.120 | 0.0630   |
|  |          |          |          |        |           |          |        | 1733   | 0.020 | 0.0642   |
|  |          |          |          |        |           |          |        | 1757   | 0.003 | 0.0645   |
|  |          |          |          |        |           |          |        | 1827   | 0.0   | 0.0645   |
|  |          |          |          |        |           |          |        | 1847   | 0.0   | 0.0645   |

NOTES: To convert CFS to IN/HR, multiply by 0.051680.





CRICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 Sec. 13, T. 7 N., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 03 sec. N.; Long. 97 deg. 47 min. 11 sec. W.

AREA: 27.55 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | CRICKASHA, OKLAHOMA WATERSHED R-8 |   |       |          |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-----------------------------------|---|-------|----------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                               | Jul                                       | Aug   | Sep      | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.14              | 1.80  | 1.57   | 4.02  | 2.72    | 0.96                              | 0.70                                      | 5.04  | 3.79     | 4.85  | 1.63  | 1.52  | 28.74  |       |        |       |
|   | Q | 0.0               | 0.177 | 0.239  | 1.004 | 0.508   | 0.031                             | 0.0                                       | 0.721 | 0.187    | 1.099 | 0.278 | 0.045 | 4.289  |       |        |       |
| STA AV  | P | 0.97              | 1.15  | 2.11   | 2.95  | 4.38    | 2.73                              | 2.38                                      | 2.77  | 4.37     | 3.50  | 1.64  | 1.08  | 30.03  |       |        |       |
|   | Q | 0.064             | 0.052 | 0.296  | 0.450 | 0.828   | 0.488                             | 0.173                                     | 0.165 | 0.456    | 0.627 | 0.250 | 0.049 | 3.898  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                                   |   |       |          |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                                   | Maximum Volume for Selected Time Interval |       | 12 Hours |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                              | Date                                      | Vol.  | Date     | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 4-29              | 0.847 | 4-29   | 0.559 | 4-29    | 0.744                             | 4-29                                      | 0.822 | 4-29     | 0.832 | 4-29  | 0.834 | 4-29   | 1.302 | 4-24   | 1.329 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                                   |   |       |          |       |       |       |        |       |        |       |
|   |   | 5-24              | 4.813 | 5-24   | 2.148 | 5-24    | 2.304                             | 5-24                                      | 2.323 | 5-24     | 2.327 | 5-24  | 2.330 | 5-22   | 2.559 | 5-24   | 3.328 |
|   |   | 1973              |       | 1973   |       | 1973    |                                   | 1973                                      |       | 1973     |       | 1973  |       | 1973   |       | 1973   |       |

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935, when land use was changed to pasture because of severe erosion. Gauge condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1974, based on 25 uniformly spaced clipped samples, average 432 pounds of standing grass, 116 pounds of weeds, and 567 pounds per acre of mulch. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. Precipitation and runoff records began July 1, 1966. STA AV based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

| 1974   |      | DAILY PRECIPITATION (inches) |      |      |      |      | CRICKASRA, OKLAHOMA WATERSHED R-8 |      |      |      |      |      |  |
|--------|------|------------------------------|------|------|------|------|-----------------------------------|------|------|------|------|------|--|
| Day    | Jan  | Feb                          | Mar  | Apr  | May  | Jun  | Jul                               | Aug  | Sep  | Oct  | Nov  | Dec  |  |
| 1      | 0.01 | 0.0                          | 0.0  | 0.0  | 1.23 | 0.0  | 0.0                               | 0.42 | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 2      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.85 | 0.0  | 0.19 | 0.0  |  |
| 3      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.22 | 0.0                               | 0.05 | 0.0  | 0.0  | 0.84 | 0.0  |  |
| 4      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.04 | 0.33                              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 5      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.06 | 0.0  | 0.0  | 0.0  | 0.11 |  |
| 6      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.45 | 0.0                               | 0.11 | 0.0  | 0.13 | 0.0  | 0.0  |  |
| 7      | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.02 | 0.0                               | 0.0  | 0.0  | 0.09 | 0.03 | 0.0  |  |
| 8      | 0.0  | 0.0                          | 0.20 | 0.0  | 0.0  | 0.11 | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 9      | 0.10 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 1.56 | 0.0  | 0.0  | 0.30 | 0.0  |  |
| 10     | 0.0  | 0.0                          | 1.02 | 0.0  | 0.0  | 0.0  | 0.0                               | 1.84 | 0.0  | 0.0  | 0.22 | 0.81 |  |
| 11     | 0.0  | 0.0                          | 0.0  | 1.28 | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 |  |
| 12     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  |  |
| 13     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  |  |
| 14     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  |  |
| 15     | 0.0  | 0.03                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 1.07 | 0.0  | 0.0  | 0.0  |  |
| 16     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.26 | 0.0  | 0.0  | 0.0  |  |
| 17     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.12 | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 18     | 0.0  | 0.32                         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 19     | 0.02 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  |  |
| 20     | 0.0  | 0.72                         | 0.35 | 0.01 | 0.0  | 0.0  | 0.0                               | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  |  |
| 21     | 0.0  | 0.73                         | 0.0  | 0.0  | 0.07 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 22     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 23     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.09 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |  |
| 24     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 1.18 | 0.92 | 0.0  | 0.0  |  |
| 25     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.83 | 0.0  | 0.0                               | 0.0  | 0.16 | 0.34 | 0.0  | 0.0  |  |
| 26     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.18 | 0.0  | 0.05 | 0.0  | 0.0  |  |
| 27     | 0.01 | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.82 | 0.0  | 0.15 | 0.0  | 0.0  |  |
| 28     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 0.89 | 0.0  | 0.0  |  |
| 29     | 0.0  | 0.0                          | 0.0  | 2.67 | 0.0  | 0.0  | 0.37                              | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |  |
| 30     | 0.0  | 0.0                          | 0.0  | 0.06 | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  | 1.78 | 0.0  | 0.17 |  |
| 31     | 0.0  | 0.0                          | 0.0  | 0.0  | 0.50 | 0.0  | 0.0                               | 0.0  | 0.0  | 0.24 | 0.0  | 0.21 |  |
| TOTAL  | 0.14 | 1.80                         | 1.57 | 4.02 | 2.72 | 0.96 | 0.70                              | 5.04 | 3.79 | 4.85 | 1.63 | 1.52 |  |
| STA AV | 0.97 | 1.15                         | 2.11 | 2.95 | 4.38 | 2.73 | 2.38                              | 2.77 | 4.37 | 3.50 | 1.64 | 1.08 |  |

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV based on 9 yr (1966-74) record period.

| 1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-8 |       |        |        |        |        |        |       |        |        |        |        |        |     |
|---|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-----|
| Day   | Jan   | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |     |
| 1   | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.567  | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 2   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.003  | 0.0    | 0.0   | 0.0    | 0.058  | 0.0    | 0.019  | 0.0    | 0.0 |
| 3   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.001  | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0    | 0.270  | 0.0    | 0.0 |
| 4   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0    | 0.002  | 0.0    | 0.0 |
| 5   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 6   | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.0 T  | 0.035  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 7   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 8   | 0.0   | 0.0    | 0.001  | 0.0 T  | 0.0 T  | 0.0 T  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 9   | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.205  | 0.0    | 0.0    | 0.008  | 0.0    | 0.0 |
| 10  | 0.0   | 0.0    | 0.250  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.630  | 0.0    | 0.0    | 0.024  | 0.022  | 0.0 |
| 11  | 0.0   | 0.0    | 0.001  | 0.188  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.030  | 0.0 |
| 12  | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 T  | 0.0 |
| 13  | 0.0   | 0.0    | 0.0 T  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 14  | 0.0   | 0.0    | 0.001  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 15  | 0.0   | 0.0    | 0.002  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.033  | 0.0    | 0.0    | 0.0    | 0.0 |
| 16  | 0.0   | 0.0    | 0.002  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.028  | 0.0    | 0.0    | 0.0    | 0.0 |
| 17  | 0.0   | 0.0    | 0.003  | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 18  | 0.0   | 0.001  | 0.004  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 19  | 0.0   | 0.0 T  | 0.008  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 20  | 0.0   | 0.010  | 0.001  | 0.0 T  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 21  | 0.0   | 0.191  | 0.0 T  | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 22  | 0.0   | 0.001  | 0.0    | 0.0 T  | 0.0 T  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 23  | 0.0   | 0.0 T  | 0.0    | 0.0 T  | 0.001  | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 24  | 0.0   | 0.0    | 0.0    | 0.0 T  | 0.002  | 0.0    | 0.0   | 0.0    | 0.084  | 0.012  | 0.0    | 0.0    | 0.0 |
| 25  | 0.0   | 0.0 T  | 0.0    | 0.0 T  | 0.010  | 0.0    | 0.0   | 0.0    | 0.013  | 0.028  | 0.0    | 0.0    | 0.0 |
| 26  | 0.0   | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 27  | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 28  | 0.0   | 0.0    | 0.0 T  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.322  | 0.0    | 0.0    | 0.0 |
| 29  | 0.0   |        | 0.0 T  | 0.932  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| 30  | 0.0   |        | 0.0 T  | 0.038  | 0.0    | 0.0    | 0.0   | 0.0    | 0.0    | 0.871  | 0.0    | 0.0    | 0.0 |
| 31  | 0.0   |        | 0.0 T  |        | 0.002  |        | 0.0   | 0.0    |        | 0.039  |        | 0.0    | 0.0 |
| MEAN  | 0.0   | 0.0073 | 0.0089 | 0.0387 | 0.0190 | 0.0012 | 0.0   | 0.0269 | 0.0072 | 0.0410 | 0.0107 | 0.0017 | 0.0 |
| INCHES  | 0.0   | 0.177  | 0.239  | 1.004  | 0.508  | 0.031  | 0.0   | 0.721  | 0.187  | 1.099  | 0.278  | 0.045  | 0.0 |
| STA AV  | 0.064 | 0.052  | 0.296  | 0.450  | 0.828  | 0.488  | 0.173 | 0.165  | 0.456  | 0.627  | 0.250  | 0.049  | 0.0 |

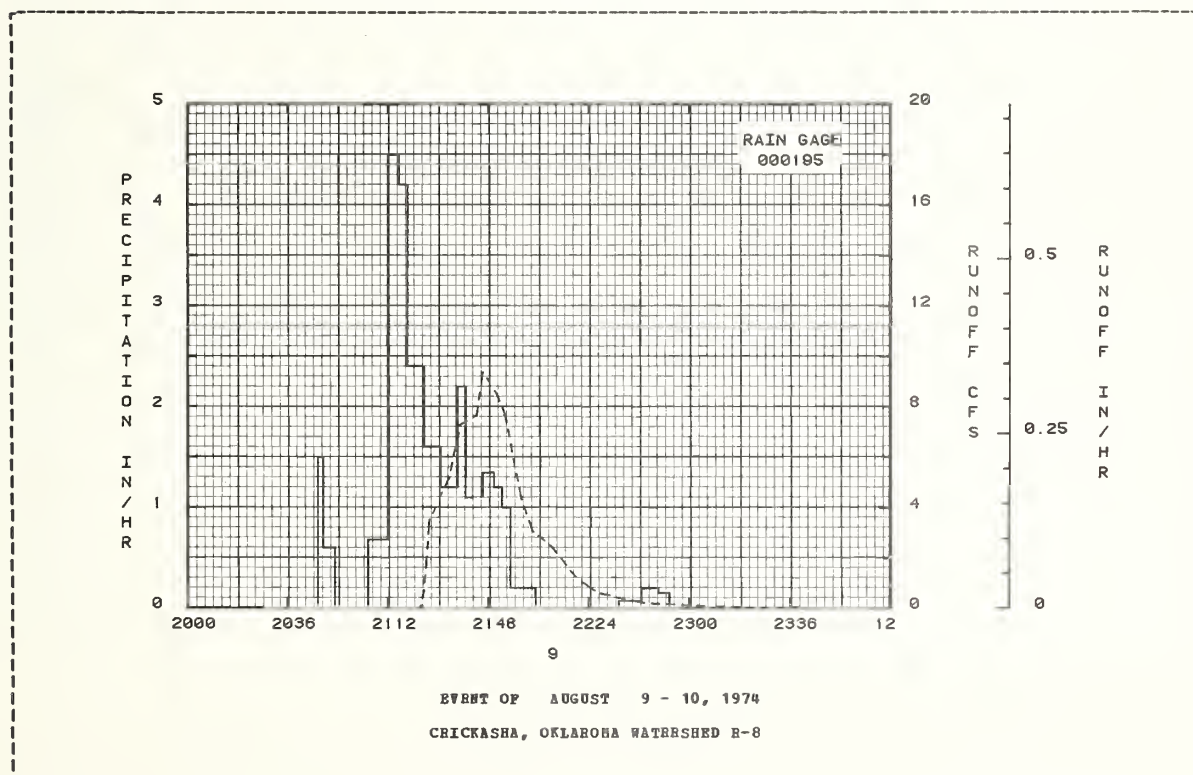
NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.863944. STA AV based on 9 yr (1966-74) record period.

| 1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-8                        |          |          |           |        |           |          |        |        |       |          |  |
|---|----------|----------|-----------|--------|-----------|----------|--------|--------|-------|----------|--|
| ANTECEDENT CONDITIONS   |          |          | RAINFALL  |        |           | RUNOFF   |        |        |       |          |  |
| Date  | Rainfall | Runoff   | Date      | Time   | Intensity | Acc.     | Date   | Time   | Rate  | Acc.     |  |
| Mo-Day  | (inches) | (inches) | Mo-Day    | of Day | (in/hr)   | (inches) | Mo-Day | of Day | (cfs) | (inches) |  |
| EVENT OF AUGUST 9 - 10, 1974  |          |          |           |        |           |          |        |        |       |          |  |
| RG 000195   |          |          | RG 000195 |        |           |          |        |        |       |          |  |
| 8- 9  | 0.0      | 0.0      | 8- 9      | 2047   | 0.0       | 0.0      | 8- 9   | 2123   | 0.0   | 0.0      |  |
|   |          |          |           | 2049   | 1.5000    | 0.05     |        | 2124   | 0.119 | 0.0000   |  |
|   |          |          |           | 2053   | 0.6000    | 0.09     |        | 2125   | 0.719 | 0.0003   |  |
|   |          |          |           | 2105   | 0.0       | 0.09     |        | 2126   | 2.051 | 0.0011   |  |
|   |          |          |           | 2112   | 0.6857    | 0.17     |        | 2127   | 3.528 | 0.0028   |  |
| WATERSHED CONDITIONS:<br>Range condition class during<br>the year was poor to fair. |          |          |           | 2116   | 4.5000    | 0.47     |        | 2134   | 5.204 | 0.0211   |  |
|   |          |          |           | 2119   | 4.2000    | 0.68     |        | 2138   | 7.296 | 0.0361   |  |
|   |          |          |           | 2125   | 2.4000    | 0.92     |        | 2144   | 7.688 | 0.0631   |  |
|   |          |          |           | 2131   | 1.6000    | 1.08     |        | 2146   | 9.382 | 0.0733   |  |
|   |          |          |           | 2137   | 1.2000    | 1.20     |        | 2151   | 8.509 | 0.1002   |  |
|   |          |          |           | 2140   | 2.2000    | 1.31     |        | 2154   | 7.688 | 0.1147   |  |
|   |          |          |           | 2146   | 1.1000    | 1.42     |        | 2200   | 4.316 | 0.1364   |  |
|   |          |          |           | 2150   | 1.3500    | 1.51     |        | 2204   | 3.056 | 0.1452   |  |
|   |          |          |           | 2153   | 1.2000    | 1.57     |        | 2211   | 2.424 | 0.1567   |  |
|   |          |          |           | 2156   | 1.0000    | 1.62     |        | 2220   | 1.152 | 0.1664   |  |
|   |          |          |           | 2205   | 0.2000    | 1.65     |        | 2226   | 0.719 | 0.1697   |  |
|   |          |          |           | 2235   | 0.0       | 1.65     |        | 2229   | 0.547 | 0.1709   |  |
|   |          |          |           | 2243   | 0.0750    | 1.66     |        | 2244   | 0.191 | 0.1742   |  |
|   |          |          |           | 2249   | 0.2000    | 1.68     |        | 2310   | 0.047 | 0.1761   |  |
|   |          |          |           | 2253   | 0.1500    | 1.69     |        | 2400   | 0.011 | 0.1769   |  |
|   |          |          |           |        |           |          | 8-10   | 103    | 0.002 | 0.1772   |  |
|   |          |          |           |        |           |          |        | 203    | 0.001 | 0.1772   |  |
|   |          |          |           |        |           |          |        | 233    | 0.002 | 0.1773   |  |
|   |          |          |           |        |           |          |        | 234    | 0.005 | 0.1773   |  |
|   |          |          |           |        |           |          |        | 236    | 0.341 | 0.1775   |  |
|   |          |          |           |        |           |          |        | 241    | 1.280 | 0.1799   |  |
|   |          |          |           |        |           |          |        | 246    | 2.835 | 0.1861   |  |
|   |          |          |           |        |           |          |        | 255    | 1.879 | 0.1988   |  |
|   |          |          |           |        |           |          |        | 308    | 1.215 | 0.2109   |  |
|   |          |          |           |        |           |          |        | 309    | 1.091 | 0.2116   |  |

NOTES: To convert CFS to IN/HR, multiply by 0.035998.

| 1974 SELECTED RUNOFF EVENT               |                      |                    | CRICKASHA, OKLAHOMA WATERSHED R-8 |                |                      |                  |                |                |               |                  |
|--|----------------------|--------------------|-----------------------------------|----------------|----------------------|------------------|----------------|----------------|---------------|------------------|
| ANTECEDENT CONDITIONS                    |                      |                    | RAINFALL                          |                |                      |                  | RUNOFF         |                |               |                  |
| Date<br>Mo-Day                           | Rainfall<br>(inches) | Runoff<br>(inches) | Date<br>Mo-Day                    | Time<br>of Day | Intensity<br>(in/hr) | Acc.<br>(inches) | Date<br>Mo-Day | Time<br>of Day | Rate<br>(cfs) | Acc.<br>(inches) |
| EVENT OF AUGUST 9 - 10, 1974 (CONTINUED) |                      |                    |                                   |                |                      |                  |                |                |               |                  |
|  |                      |                    |                                   |                |                      |                  | 8-10           |                |               |                  |
|  |                      |                    |                                   |                |                      |                  |                | 312            | 1.215         | 0.2136           |
|  |                      |                    |                                   |                |                      |                  |                | 334            | 1.879         | 0.2341           |
|  |                      |                    |                                   |                |                      |                  |                | 348            | 0.719         | 0.2450           |
|  |                      |                    |                                   |                |                      |                  |                | 353            | 0.472         | 0.2468           |
|  |                      |                    |                                   |                |                      |                  |                | 407            | 0.341         | 0.2502           |
|  |                      |                    |                                   |                |                      |                  |                | 428            | 0.191         | 0.2535           |
|  |                      |                    |                                   |                |                      |                  |                | 430            | 1.032         | 0.2542           |
|  |                      |                    |                                   |                |                      |                  |                | 434            | 2.624         | 0.2586           |
|  |                      |                    |                                   |                |                      |                  |                | 437            | 5.204         | 0.2657           |
|  |                      |                    |                                   |                |                      |                  |                | 441            | 7.688         | 0.2811           |
|  |                      |                    |                                   |                |                      |                  |                | 447            | 11.800        | 0.3162           |
|  |                      |                    |                                   |                |                      |                  |                | 449            | 14.870        | 0.3322           |
|  |                      |                    |                                   |                |                      |                  |                | 453            | 15.780        | 0.3690           |
|  |                      |                    |                                   |                |                      |                  |                | 502            | 12.330        | 0.4449           |
|  |                      |                    |                                   |                |                      |                  |                | 514            | 10.310        | 0.5264           |
|  |                      |                    |                                   |                |                      |                  |                | 521            | 7.688         | 0.5642           |
|  |                      |                    |                                   |                |                      |                  |                | 533            | 4.316         | 0.6074           |
|  |                      |                    |                                   |                |                      |                  |                | 537            | 3.910         | 0.6173           |
|  |                      |                    |                                   |                |                      |                  |                | 542            | 2.835         | 0.6274           |
|  |                      |                    |                                   |                |                      |                  |                | 559            | 1.562         | 0.6498           |
|  |                      |                    |                                   |                |                      |                  |                | 621            | 1.032         | 0.6669           |
|  |                      |                    |                                   |                |                      |                  |                | 633            | 0.920         | 0.6740           |
|  |                      |                    |                                   |                |                      |                  |                | 659            | 0.866         | 0.6879           |
|  |                      |                    |                                   |                |                      |                  |                | 715            | 0.920         | 0.6965           |
|  |                      |                    |                                   |                |                      |                  |                | 729            | 0.766         | 0.7035           |
|  |                      |                    |                                   |                |                      |                  |                | 733            | 0.719         | 0.7053           |
|  |                      |                    |                                   |                |                      |                  |                | 805            | 0.285         | 0.7150           |
|  |                      |                    |                                   |                |                      |                  |                | 839            | 0.091         | 0.7188           |
|  |                      |                    |                                   |                |                      |                  |                | 934            | 0.020         | 0.7206           |
|  |                      |                    |                                   |                |                      |                  |                | 1006           | 0.011         | 0.7209           |
|  |                      |                    |                                   |                |                      |                  |                | 1100           | 0.003         | 0.7211           |
|  |                      |                    |                                   |                |                      |                  |                | 1200           | 0.002         | 0.7212           |
|  |                      |                    |                                   |                |                      |                  |                | 1343           | 0.0           | 0.7213           |
|  |                      |                    |                                   |                |                      |                  |                | 1842           | 0.0           | 0.7213           |

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



## TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 09 min. 51 sec. N.; Long. 95 deg. 38 min. 30 sec. W.

AREA: 74.50 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |                   |       |        |       |         |       |         | TREYNOR, IOWA WATERSHED 1 |          |       |       |       |        |        |        |       |
|---|-------------------|-------|--------|-------|---------|-------|---------|---------------------------|----------|-------|-------|-------|--------|--------|--------|-------|
|   |                   | Jan   | Feb    | Mar   | Apr     | May   | Jun     | Jul                       | Aug      | Sep   | Oct   | Nov   | Dec    | Annual |        |       |
| 1974  | P                 | 0.25  | 0.25   | 0.83  | 3.15    | 3.36  | 1.03    | 0.64                      | 8.99     | 1.37  | 2.87  | 1.32  | 0.74   | 24.80  |        |       |
|   | Q                 | 0.567 | 0.636  | 0.677 | 0.709   | 0.835 | 0.588   | 0.489                     | 0.666    | 0.455 | 0.482 | 0.464 | 0.429  | 6.996  |        |       |
| STA AV  | P                 | 0.52  | 0.58   | 1.23  | 3.30    | 4.66  | 5.18    | 3.75                      | 3.96     | 4.43  | 3.13  | 1.35  | 0.96   | 33.06  |        |       |
|   | Q                 | 0.378 | 0.598  | 0.538 | 0.421   | 1.091 | 1.803   | 0.408                     | 0.474    | 0.572 | 0.361 | 0.302 | 0.293  | 7.240  |        |       |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |                   |       |        |       |         |       |         |                           |          |       |       |       |        |        |        |       |
|   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | 6 Hours |                           | 12 Hours |       | 1 Day |       | 2 Days |        | 8 Days |       |
|   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date    | Vol.                      | Date     | Vol.  | Date  | Vol.  | Date   | Vol.   | Date   | Vol.  |
| 1974  | 5-18              | 0.323 | 5-18   | 0.079 | 5-18    | 0.082 | 5-18    | 0.087                     | 5-18     | 0.094 | 5-17  | 0.110 | 5-17   | 0.135  | 5-10   | 0.278 |
| MAXIMUMS FOR PERIOD OF RECORD   |                   |       |        |       |         |       |         |                           |          |       |       |       |        |        |        |       |
|   | 6-20              | 5.835 | 6-20   | 3.150 | 6-20    | 4.160 | 6-20    | 4.224                     | 6-20     | 4.232 | 6-20  | 4.246 | 6-20   | 4.264  | 6-4    | 5.979 |
|   | 1967              |       | 1967   |       | 1967    |       | 1967    |                           | 1967     |       | 1967  |       | 1967   |        | 1967   |       |

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 5; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |     |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| TREYNOR, IOWA WATERSHED 1         |      |      |      |      |      |      |      |      |      |      |      |      |     |
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |     |
| 1                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.91 | 0.27 | 0.0  | 0.0  | 0.0  | 0.0 |
| 2                                 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0 |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.16 | 0.04 | 0.27 | 0.21 | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0 |
| 4                                 | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0 |
| 6                                 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.67 | 0.0  | 0.20 | 0.0 |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 8                                 | 0.05 | 0.0  | 0.05 | 0.0  | 0.0  | 0.45 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 9                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 1.05 | 0.0  | 0.0  | 0.86 | 0.0  | 0.0 |
| 10                                | 0.05 | 0.0  | 0.0  | 0.0  | 0.82 | 0.0  | 0.24 | 1.00 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0 |
| 11                                | 0.0  | 0.0  | 0.28 | 0.75 | 0.05 | 0.07 | 0.0  | 0.0  | 0.03 | 0.06 | 0.0  | 0.0  | 0.0 |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.01 | 0.0  | 0.0  | 0.0  | 0.0 |
| 13                                | 0.0  | 0.0  | 0.0  | 0.01 | 0.41 | 0.0  | 0.0  | 1.35 | 0.0  | 0.05 | 0.0  | 0.0  | 0.0 |
| 14                                | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0 |
| 15                                | 0.0  | 0.0  | 0.10 | 0.14 | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0  | 0.0  | 0.09 | 0.0 |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 1.34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.21 | 0.0  | 0.0  | 1.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 18                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.91 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0 |
| 19                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 20                                | 0.0  | 0.0  | 0.11 | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 21                                | 0.0  | 0.25 | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 22                                | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0 |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0 |
| 27                                | 0.0  | 0.0  | 0.0  | 0.64 | 0.24 | 0.0  | 0.0  | 0.90 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 28                                | 0.0  | 0.0  | 0.0  | 1.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0 |
| 29                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0 |
| 30                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.89 | 0.0  | 1.46 | 0.07 | 0.0  | 0.0 |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.02 | 0.05 | 0.0  | 0.07 | 0.0  | 0.0  | 0.0 |
| TOTAL                             | 0.25 | 0.25 | 0.83 | 3.15 | 3.36 | 1.03 | 0.64 | 8.99 | 1.37 | 2.87 | 1.32 | 0.74 |     |
| STA AV                            | 0.52 | 0.58 | 1.23 | 3.30 | 4.66 | 5.18 | 3.75 | 3.96 | 4.43 | 3.13 | 1.35 | 0.96 |     |

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 5; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV based on 11 yr record period.



| 1974 TREYNOR, IOWA WATERSHED 1 |        |        |        |        |        |        |        |        |        |        |        |        |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN DAILY DISCHARGE (cfs)     |        |        |        |        |        |        |        |        |        |        |        |        |
| Day                            | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1                              | 0.028  | 0.065  | 0.076  | 0.060  | 0.070  | 0.065  | 0.058  | 0.057  | 0.060  | 0.044  | 0.047  | 0.047  |
| 2                              | 0.055  | 0.065  | 0.076  | 0.065  | 0.069  | 0.063  | 0.052  | 0.051  | 0.059  | 0.044  | 0.047  | 0.047  |
| 3                              | 0.055  | 0.060  | 0.076  | 0.067  | 0.074  | 0.070  | 0.061  | 0.051  | 0.049  | 0.044  | 0.053  | 0.047  |
| 4                              | 0.055  | 0.055  | 0.070  | 0.065  | 0.081  | 0.062  | 0.058  | 0.051  | 0.047  | 0.047  | 0.046  | 0.047  |
| 5                              | 0.055  | 0.055  | 0.065  | 0.065  | 0.089  | 0.062  | 0.058  | 0.047  | 0.046  | 0.049  | 0.047  | 0.046  |
| 6                              | 0.055  | 0.055  | 0.065  | 0.065  | 0.089  | 0.062  | 0.058  | 0.044  | 0.047  | 0.060  | 0.047  | 0.052  |
| 7                              | 0.055  | 0.055  | 0.065  | 0.065  | 0.089  | 0.065  | 0.058  | 0.047  | 0.047  | 0.047  | 0.047  | 0.044  |
| 8                              | 0.055  | 0.055  | 0.068  | 0.065  | 0.081  | 0.084  | 0.054  | 0.047  | 0.047  | 0.044  | 0.047  | 0.038  |
| 9                              | 0.055  | 0.055  | 0.065  | 0.059  | 0.073  | 0.078  | 0.051  | 0.071  | 0.047  | 0.044  | 0.078  | 0.038  |
| 10                             | 0.055  | 0.055  | 0.065  | 0.059  | 0.087  | 0.065  | 0.060  | 0.085  | 0.046  | 0.044  | 0.057  | 0.043  |
| 11                             | 0.055  | 0.078  | 0.080  | 0.091  | 0.088  | 0.061  | 0.056  | 0.051  | 0.047  | 0.047  | 0.052  | 0.047  |
| 12                             | 0.055  | 0.145  | 0.076  | 0.077  | 0.072  | 0.061  | 0.051  | 0.047  | 0.079  | 0.047  | 0.047  | 0.046  |
| 13                             | 0.055  | 0.078  | 0.070  | 0.070  | 0.091  | 0.065  | 0.051  | 0.114  | 0.050  | 0.046  | 0.047  | 0.047  |
| 14                             | 0.055  | 0.065  | 0.065  | 0.070  | 0.067  | 0.060  | 0.051  | 0.051  | 0.047  | 0.047  | 0.047  | 0.047  |
| 15                             | 0.055  | 0.065  | 0.065  | 0.072  | 0.065  | 0.060  | 0.050  | 0.054  | 0.046  | 0.047  | 0.046  | 0.047  |
| 16                             | 0.055  | 0.089  | 0.065  | 0.068  | 0.064  | 0.060  | 0.050  | 0.148  | 0.044  | 0.047  | 0.047  | 0.047  |
| 17                             | 0.055  | 0.115  | 0.069  | 0.060  | 0.079  | 0.060  | 0.044  | 0.255  | 0.044  | 0.047  | 0.047  | 0.045  |
| 18                             | 0.055  | 0.065  | 0.065  | 0.065  | 0.346  | 0.058  | 0.043  | 0.060  | 0.044  | 0.046  | 0.047  | 0.038  |
| 19                             | 0.055  | 0.065  | 0.065  | 0.065  | 0.076  | 0.059  | 0.043  | 0.050  | 0.042  | 0.047  | 0.047  | 0.039  |
| 20                             | 0.055  | 0.065  | 0.065  | 0.071  | 0.073  | 0.061  | 0.044  | 0.050  | 0.043  | 0.047  | 0.046  | 0.044  |
| 21                             | 0.055  | 0.076  | 0.068  | 0.075  | 0.107  | 0.056  | 0.043  | 0.046  | 0.044  | 0.047  | 0.047  | 0.047  |
| 22                             | 0.055  | 0.072  | 0.065  | 0.064  | 0.068  | 0.062  | 0.049  | 0.047  | 0.044  | 0.046  | 0.047  | 0.049  |
| 23                             | 0.055  | 0.065  | 0.071  | 0.065  | 0.065  | 0.061  | 0.043  | 0.047  | 0.044  | 0.047  | 0.047  | 0.047  |
| 24                             | 0.055  | 0.065  | 0.076  | 0.065  | 0.068  | 0.059  | 0.043  | 0.047  | 0.044  | 0.047  | 0.047  | 0.038  |
| 25                             | 0.062  | 0.069  | 0.076  | 0.069  | 0.074  | 0.056  | 0.044  | 0.047  | 0.044  | 0.047  | 0.046  | 0.039  |
| 26                             | 0.065  | 0.078  | 0.071  | 0.072  | 0.080  | 0.052  | 0.044  | 0.046  | 0.044  | 0.047  | 0.047  | 0.038  |
| 27                             | 0.065  | 0.084  | 0.068  | 0.100  | 0.078  | 0.052  | 0.043  | 0.084  | 0.047  | 0.046  | 0.047  | 0.039  |
| 28                             | 0.065  | 0.076  | 0.065  | 0.213  | 0.062  | 0.052  | 0.043  | 0.050  | 0.046  | 0.050  | 0.047  | 0.038  |
| 29                             | 0.072  |        | 0.065  | 0.076  | 0.063  | 0.052  | 0.044  | 0.047  | 0.044  | 0.046  | 0.047  | 0.038  |
| 30                             | 0.083  |        | 0.060  | 0.072  | 0.061  | 0.056  | 0.043  | 0.140  | 0.044  | 0.102  | 0.046  | 0.038  |
| 31                             | 0.073  |        | 0.055  |        | 0.065  |        | 0.044  | 0.059  |        | 0.052  |        | 0.038  |
| MEAN                           | 0.0572 | 0.0711 | 0.0684 | 0.0740 | 0.0843 | 0.0613 | 0.0494 | 0.0673 | 0.0474 | 0.0486 | 0.0484 | 0.0433 |
| INCHES                         | 0.567  | 0.636  | 0.677  | 0.709  | 0.835  | 0.588  | 0.489  | 0.666  | 0.455  | 0.482  | 0.464  | 0.429  |
| STA AV                         | 0.378  | 0.598  | 0.538  | 0.421  | 1.091  | 1.803  | 0.408  | 0.474  | 0.572  | 0.361  | 0.302  | 0.293  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.31949. STA AV based on 11 yr record period.

## TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.  
Lat. 41 deg. 10 min. 10 sec. N.; Long. 95 deg. 39 min. 00 sec. W.

AREA: 82.80 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         |       | TREYNOR, IOWA WATERSHED 2                 |       |       |       |       |       |        |       |        |       |
|---|---|-------------------|-------|--------|-------|---------|-------|---|-------|-------|-------|-------|-------|--------|-------|--------|-------|
|   |   | Jau               | Feb   | Mar    | Apr   | May     | Jun   | Jul                                       | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |       |        |       |
| 1974  | P | 0.25              | 0.25  | 0.83   | 3.00  | 3.42    | 0.99  | 0.60                                      | 8.82  | 1.34  | 2.90  | 1.32  | 0.74  | 24.46  |       |        |       |
|   | Q | 0.836             | 0.923 | 0.939  | 0.825 | 0.959   | 0.713 | 0.611                                     | 0.825 | 0.592 | 0.618 | 0.634 | 0.640 | 9.117  |       |        |       |
| STA AV  | P | 0.52              | 0.58  | 1.28   | 3.24  | 4.61    | 5.14  | 3.65                                      | 3.85  | 4.49  | 3.13  | 1.36  | 0.96  | 32.81  |       |        |       |
|   | Q | 0.440             | 0.699 | 0.617  | 0.416 | 0.939   | 1.718 | 0.388                                     | 0.469 | 0.597 | 0.422 | 0.344 | 0.366 | 7.415  |       |        |       |
| ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |       |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |       | Maximum Volume for Selected Time Interval |       |       |       | 1 Day |       | 2 Days |       | 8 Days |       |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.  | Date                                      | Vol.  | Date  | Vol.  | Date  | Vol.  | Date   | Vol.  | Date   | Vol.  |
| 1974  |   | 8-17              | 0.281 | 8-17   | 0.090 | 8-17    | 0.098 | 8-17                                      | 0.106 | 8-17  | 0.113 | 5-17  | 0.129 | 8-16   | 0.167 | 2-11   | 0.340 |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |       |   |       |       |       |       |       |        |       |        |       |
|   |   | 6-20              | 4.866 | 6-20   | 2.701 | 6-20    | 3.693 | 6-20                                      | 3.780 | 6-20  | 3.786 | 6-20  | 3.796 | 6-20   | 3.810 | 6-4    | 5.531 |
|   |   | 1967              |       | 1967   |       | 1967    |       | 1967                                      |       | 1967  |       | 1967  |       | 1967   |       | 1967   |       |

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 5; Thiessen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see National Weather Service records period at Omaha, Nebraska.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      |     |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| TREYNOR, IOWA WATERSHED 2         |      |      |      |      |      |      |      |      |      |      |      |      |     |
| Day                               | Jau  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |     |
| 1                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.98 | 0.29 | 0.0  | 0.0  | 0.0  | 0.0 |
| 2                                 | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  | 0.0 |
| 3                                 | 0.0  | 0.0  | 0.0  | 0.17 | 0.04 | 0.27 | 0.17 | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.0 |
| 4                                 | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 5                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  | 0.0 |
| 6                                 | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.73 | 0.0  | 0.20 | 0.0 |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 8                                 | 0.05 | 0.0  | 0.05 | 0.0  | 0.0  | 0.43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 9                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 1.04 | 0.0  | 0.0  | 0.86 | 0.0  | 0.0 |
| 10                                | 0.05 | 0.0  | 0.0  | 0.0  | 0.76 | 0.0  | 0.28 | 0.79 | 0.0  | 0.0  | 0.02 | 0.0  | 0.0 |
| 11                                | 0.0  | 0.0  | 0.28 | 0.70 | 0.05 | 0.08 | 0.0  | 0.0  | 0.02 | 0.05 | 0.0  | 0.0  | 0.0 |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  | 0.0  | 0.0  | 0.0 |
| 13                                | 0.0  | 0.0  | 0.0  | 0.01 | 0.50 | 0.0  | 0.0  | 1.40 | 0.0  | 0.04 | 0.0  | 0.0  | 0.0 |
| 14                                | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0 |
| 15                                | 0.0  | 0.0  | 0.10 | 0.13 | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  | 0.0  | 0.09 | 0.0 |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0  | 0.0  | 1.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.0  | 1.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 18                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.87 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.0 |
| 19                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 20                                | 0.0  | 0.0  | 0.11 | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 21                                | 0.0  | 0.25 | 0.0  | 0.0  | 0.23 | 0.0  | 0.0  | 0.07 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 22                                | 0.0  | 0.0  | 0.11 | 0.0  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0 |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0 |
| 27                                | 0.0  | 0.0  | 0.0  | 0.62 | 0.26 | 0.0  | 0.0  | 0.77 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 28                                | 0.0  | 0.0  | 0.0  | 1.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0 |
| 29                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.0 |
| 30                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 1.01 | 0.0  | 1.47 | 0.07 | 0.0  | 0.0 |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.04 | 0.0  | 0.06 | 0.0  | 0.0  | 0.0 |
| TOTAL                             | 0.25 | 0.25 | 0.83 | 3.00 | 3.42 | 0.99 | 0.60 | 8.82 | 1.34 | 2.90 | 1.32 | 0.74 |     |
| STA AV                            | 0.52 | 0.58 | 1.28 | 3.24 | 4.61 | 5.14 | 3.65 | 3.85 | 4.49 | 3.13 | 1.36 | 0.96 |     |

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 5, and from station 117 for remainder of year. STA AV based on 11 yr record period.

| TREYNOR, IOWA WATERSHED 2       |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1970 MEAN DAILY DISCHARGE (cfs) |        |        |        |        |        |        |        |        |        |        |        |        |
| Day                             | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1                               | 0.097  | 0.094  | 0.105  | 0.100  | 0.089  | 0.089  | 0.070  | 0.086  | 0.088  | 0.064  | 0.072  | 0.073  |
| 2                               | 0.094  | 0.094  | 0.105  | 0.094  | 0.089  | 0.089  | 0.072  | 0.070  | 0.083  | 0.061  | 0.073  | 0.073  |
| 3                               | 0.094  | 0.095  | 0.105  | 0.101  | 0.090  | 0.095  | 0.079  | 0.069  | 0.070  | 0.061  | 0.079  | 0.072  |
| 4                               | 0.094  | 0.094  | 0.119  | 0.094  | 0.090  | 0.091  | 0.076  | 0.069  | 0.069  | 0.064  | 0.072  | 0.073  |
| 5                               | 0.094  | 0.094  | 0.116  | 0.094  | 0.089  | 0.087  | 0.075  | 0.068  | 0.070  | 0.074  | 0.073  | 0.073  |
| 6                               | 0.095  | 0.094  | 0.111  | 0.090  | 0.091  | 0.093  | 0.074  | 0.065  | 0.072  | 0.094  | 0.068  | 0.081  |
| 7                               | 0.094  | 0.094  | 0.105  | 0.095  | 0.093  | 0.093  | 0.075  | 0.065  | 0.070  | 0.071  | 0.068  | 0.073  |
| 8                               | 0.094  | 0.095  | 0.105  | 0.088  | 0.091  | 0.104  | 0.066  | 0.065  | 0.069  | 0.069  | 0.073  | 0.070  |
| 9                               | 0.094  | 0.094  | 0.105  | 0.090  | 0.090  | 0.100  | 0.065  | 0.093  | 0.069  | 0.066  | 0.098  | 0.072  |
| 10                              | 0.094  | 0.094  | 0.105  | 0.088  | 0.112  | 0.091  | 0.080  | 0.091  | 0.065  | 0.064  | 0.077  | 0.073  |
| 11                              | 0.095  | 0.133  | 0.119  | 0.119  | 0.106  | 0.090  | 0.075  | 0.073  | 0.068  | 0.071  | 0.073  | 0.073  |
| 12                              | 0.094  | 0.280  | 0.111  | 0.098  | 0.094  | 0.086  | 0.070  | 0.063  | 0.098  | 0.073  | 0.073  | 0.073  |
| 13                              | 0.094  | 0.125  | 0.105  | 0.094  | 0.112  | 0.087  | 0.073  | 0.109  | 0.069  | 0.073  | 0.072  | 0.072  |
| 14                              | 0.094  | 0.111  | 0.105  | 0.097  | 0.093  | 0.086  | 0.069  | 0.070  | 0.070  | 0.071  | 0.073  | 0.073  |
| 15                              | 0.094  | 0.105  | 0.108  | 0.097  | 0.090  | 0.086  | 0.066  | 0.075  | 0.069  | 0.064  | 0.073  | 0.073  |
| 16                              | 0.097  | 0.150  | 0.105  | 0.094  | 0.094  | 0.090  | 0.066  | 0.147  | 0.070  | 0.064  | 0.073  | 0.073  |
| 17                              | 0.094  | 0.157  | 0.105  | 0.089  | 0.096  | 0.090  | 0.065  | 0.433  | 0.065  | 0.064  | 0.073  | 0.072  |
| 18                              | 0.094  | 0.116  | 0.105  | 0.090  | 0.452  | 0.084  | 0.065  | 0.085  | 0.063  | 0.067  | 0.072  | 0.070  |
| 19                              | 0.095  | 0.111  | 0.100  | 0.090  | 0.116  | 0.079  | 0.066  | 0.073  | 0.063  | 0.070  | 0.073  | 0.073  |
| 20                              | 0.094  | 0.105  | 0.094  | 0.097  | 0.097  | 0.076  | 0.066  | 0.069  | 0.064  | 0.069  | 0.073  | 0.073  |
| 21                              | 0.094  | 0.114  | 0.103  | 0.090  | 0.114  | 0.079  | 0.066  | 0.074  | 0.066  | 0.064  | 0.073  | 0.073  |
| 22                              | 0.094  | 0.111  | 0.100  | 0.091  | 0.090  | 0.081  | 0.068  | 0.070  | 0.066  | 0.064  | 0.073  | 0.076  |
| 23                              | 0.094  | 0.100  | 0.099  | 0.083  | 0.090  | 0.084  | 0.064  | 0.070  | 0.061  | 0.064  | 0.072  | 0.073  |
| 24                              | 0.095  | 0.094  | 0.100  | 0.083  | 0.090  | 0.067  | 0.063  | 0.069  | 0.061  | 0.064  | 0.073  | 0.065  |
| 25                              | 0.094  | 0.106  | 0.105  | 0.083  | 0.093  | 0.064  | 0.065  | 0.070  | 0.061  | 0.064  | 0.073  | 0.064  |
| 26                              | 0.094  | 0.118  | 0.105  | 0.083  | 0.105  | 0.061  | 0.066  | 0.067  | 0.061  | 0.068  | 0.073  | 0.071  |
| 27                              | 0.094  | 0.123  | 0.102  | 0.101  | 0.113  | 0.062  | 0.066  | 0.086  | 0.064  | 0.069  | 0.073  | 0.073  |
| 28                              | 0.094  | 0.111  | 0.105  | 0.157  | 0.093  | 0.065  | 0.064  | 0.069  | 0.064  | 0.069  | 0.072  | 0.073  |
| 29                              | 0.101  |        | 0.105  | 0.107  | 0.091  | 0.066  | 0.064  | 0.069  | 0.064  | 0.066  | 0.073  | 0.072  |
| 30                              | 0.110  |        | 0.101  | 0.090  | 0.091  | 0.066  | 0.064  | 0.205  | 0.067  | 0.112  | 0.073  | 0.069  |
| 31                              | 0.101  |        | 0.101  |        | 0.089  |        | 0.061  | 0.085  |        | 0.074  |        | 0.064  |
| MEAN                            | 0.0938 | 0.1147 | 0.1054 | 0.0957 | 0.1076 | 0.0827 | 0.0686 | 0.0926 | 0.0687 | 0.0694 | 0.0735 | 0.0718 |
| INCHES                          | 0.836  | 0.923  | 0.939  | 0.825  | 0.959  | 0.713  | 0.611  | 0.825  | 0.592  | 0.618  | 0.634  | 0.640  |
| STA AV                          | 0.440  | 0.699  | 0.617  | 0.416  | 0.939  | 1.718  | 0.388  | 0.469  | 0.597  | 0.422  | 0.344  | 0.366  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28706. STA AV based on 11 yr record period.

## TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 107.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                   |       |        |       |         | TREYNOR, IOWA WATERSHED 3 |   |       |         |       |          |       |        |       |        |       |        |      |
|---|---|-------------------|-------|--------|-------|---------|---------------------------|---|-------|---------|-------|----------|-------|--------|-------|--------|-------|--------|------|
|   |   | Jan               | Feb   | Mar    | Apr   | May     | Jun                       | Jul                                       | Aug   | Sep     | Oct   | Nov      | Dec   | Annual |       |        |       |        |      |
| 1974  | P | 0.34              | 0.12  | 0.98   | 2.63  | 3.71    | 0.93                      | 0.37                                      | 6.73  | 1.43    | 2.82  | 1.24     | 0.66  | 21.96  |       |        |       |        |      |
|   | Q | 0.802             | 0.893 | 1.076  | 1.014 | 1.147   | 1.044                     | 0.715                                     | 0.518 | 0.420   | 0.415 | 0.427    | 0.400 | 8.870  |       |        |       |        |      |
| STA AV  | P | 0.56              | 0.55  | 1.24   | 3.23  | 4.82    | 5.18                      | 3.48                                      | 3.24  | 4.45    | 3.11  | 1.34     | 0.95  | 32.14  |       |        |       |        |      |
|   | Q | 0.375             | 0.608 | 0.638  | 0.483 | 0.670   | 0.879                     | 0.531                                     | 0.364 | 0.350   | 0.418 | 0.383    | 0.389 | 6.088  |       |        |       |        |      |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                   |       |        |       |         |                           |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | Maximum Discharge |       | 1 Hour |       | 2 Hours |                           | Maximum Volume for Selected Time Interval |       | 6 Hours |       | 12 Hours |       | 1 Day  |       | 2 Days |       | 8 Days |      |
|   |   | Date              | Rate  | Date   | Vol.  | Date    | Vol.                      | Date                                      | Vol.  | Date    | Vol.  | Date     | Vol.  | Date   | Vol.  | Date   | Vol.  | Date   | Vol. |
| 1974  |   | 5-19              | 0.039 | 5-19   | 0.023 | 5-19    | 0.029                     | 5-19                                      | 0.036 | 5-19    | 0.045 | 5-18     | 0.071 | 5-17   | 0.105 | 5-18   | 0.327 |        |      |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                   |       |        |       |         |                           |   |       |         |       |          |       |        |       |        |       |        |      |
|   |   | 6-20              | 2.010 | 6-20   | 1.005 | 6-20    | 1.287                     | 6-20                                      | 1.336 | 6-20    | 1.350 | 6-20     | 1.371 | 2-27   | 1.408 | 6-14   | 1.741 |        |      |
|   |   | 1967              |       | 1967   |       | 1967    |                           | 1967                                      |       | 1967    |       | 1967     |       | 1965   |       | 1967   |       |        |      |

NOTES: Watershed conditions: 86% corn, conservation tillage; 14% grassed waterway, roads and farmstead. Precipitation: Arithmetic average of rain gages 113 and 114 before April 1 and after November 5; Thiessen average of gages 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

| 1974 DAILY AIR TEMPERATURE (degrees F) |         |         |         |         |         |         |         |         |         |         |         |         | TREYNOR, IOWA WATERSHED 3 |  |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------|--|
| Day                                    | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |                           |  |
|  | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min | max min |                           |  |
| 1                                      | -1 -18  | 23 17   | 54 29   | 63 39   | 71 45   | 79 54   | 102 61  | 70 61   | 56 47   | 57 30   | 66 42   | 27 13   |                           |  |
| 2                                      | 11 -3   | 28 18   | 70 38   | 78 39   | 75 47   | 83 54   | 100 83  | 75 54   | 61 44   | 57 27   | 53 41   | 23 9    |                           |  |
| 3                                      | 10 -4   | 19 5    | 58 42   | 59 31   | 62 37   | 90 63   | 91 70   | 70 47   | 66 38   | 77 40   | 45 32   | 27 5    |                           |  |
| 4                                      | 10 -10  | 27 1    | 48 30   | 39 28   | 65 46   | 85 63   | 83 62   | 79 48   | 67 39   | 76 58   | 49 28   | 34 14   |                           |  |
| 5                                      | 12 -2   | 29 19   | 59 31   | 52 26   | 71 43   | 88 61   | 86 60   | 77 51   | 66 42   | 62 43   | 39 30   | 44 24   |                           |  |
| 6                                      | 6 -5    | 23 14   | 71 32   | 68 30   | 68 40   | 75 61   | 90 60   | 80 53   | 64 50   | 50 38   | 50 29   | 36 31   |                           |  |
| 7                                      | 4 -8    | 20 9    | 52 30   | 56 38   | 76 47   | 75 55   | 96 65   | 70 53   | 79 49   | 60 29   | 61 32   | 39 14   |                           |  |
| 8                                      | 5 -6    | 30 8    | 66 44   | 56 25   | 56 46   | 64 52   | 98 72   | 82 60   | 81 55   | 74 39   | 57 36   | 20 5    |                           |  |
| 9                                      | 2 -15   | 30 17   | 54 34   | 74 36   | 67 43   | 69 58   | 97 72   | 73 66   | 81 58   | 70 40   | 47 43   | 39 15   |                           |  |
| 10                                     | 7 -5    | 36 19   | 42 29   | 68 45   | 62 51   | 76 55   | 81 71   | 80 63   | 82 66   | 83 46   | 48 38   | 49 29   |                           |  |
| 11                                     | -3 -15  | 52 19   | 44 37   | 65 47   | 69 49   | 72 57   | 91 71   | 79 55   | 72 57   | 68 56   | 51 33   | 46 29   |                           |  |
| 12                                     | 6 -24   | 55 28   | 49 35   | 51 44   | 65 45   | 78 50   | 97 68   | 95 64   | 57 42   | 56 45   | 45 30   | 46 27   |                           |  |
| 13                                     | 24 6    | 35 28   | 47 29   | 53 40   | 76 52   | 87 61   | 97 71   | 70 61   | 60 36   | 52 49   | 33 25   | 37 26   |                           |  |
| 14                                     | 37 19   | 28 26   | 51 35   | 50 34   | 64 48   | 93 65   | 95 73   | 84 66   | 73 40   | 57 45   | 33 24   | 32 25   |                           |  |
| 15                                     | 40 30   | 30 25   | 42 29   | 52 35   | 69 41   | 76 59   | 89 60   | 82 66   | 89 50   | 63 33   | 47 21   | 31 27   |                           |  |
| 16                                     | 40 32   | 52 23   | 34 22   | 59 34   | 68 54   | 72 50   | 91 58   | 85 63   | 81 49   | 73 43   | 54 31   | 23 12   |                           |  |
| 17                                     | 36 23   | 59 28   | 46 20   | 71 35   | 68 59   | 82 53   | 101 63  | 71 59   | 83 57   | 75 50   | 63 30   | 25 8    |                           |  |
| 18                                     | 34 22   | 42 27   | 52 29   | 75 43   | 73 62   | 97 60   | 101 75  | 85 57   | 87 54   | 63 43   | 50 42   | 28 17   |                           |  |
| 19                                     | 29 11   | 48 22   | 41 27   | 78 43   | 81 62   | 100 71  | 105 74  | 86 59   | 77 61   | 69 38   | 55 40   | 31 16   |                           |  |
| 20                                     | 35 29   | 52 33   | 28 -2   | 65 54   | 88 69   | 104 77  | 103 73  | 89 67   | 67 49   | 57 39   | 53 32   | 30 23   |                           |  |
| 21                                     | 33 28   | 40 27   | 39 -6   | 62 50   | 78 65   | 101 83  | 109 69  | 80 69   | 62 43   | 71 40   | 55 26   | 27 14   |                           |  |
| 22                                     | 28 19   | 32 18   | 34 13   | 64 40   | 78 59   | 84 65   | 93 70   | 78 61   | 63 33   | 75 53   | 64 33   | 41 27   |                           |  |
| 23                                     | 34 15   | 20 13   | 27 -4   | 57 35   | 72 52   | 79 56   | 94 62   | 75 54   | 71 45   | 69 50   | 49 29   | 36 20   |                           |  |
| 24                                     | 36 21   | 19 3    | 36 -6   | 63 33   | 74 49   | 79 51   | 91 65   | 77 52   | 72 45   | 72 52   | 44 21   | 20 15   |                           |  |
| 25                                     | 42 27   | 32 7    | 54 25   | 84 47   | 77 57   | 80 53   | 95 71   | 87 60   | 80 50   | 64 51   | 37 17   | 30 8    |                           |  |
| 26                                     | 38 32   | 44 23   | 57 33   | 75 59   | 70 57   | 84 56   | 100 69  | 90 66   | 88 51   | 71 43   | 46 37   | 35 17   |                           |  |
| 27                                     | 30 24   | 51 31   | 72 33   | 85 58   | 73 53   | 86 57   | 95 66   | 71 56   | 74 56   | 69 53   | 45 22   | 32 25   |                           |  |
| 28                                     | 40 29   | 43 32   | 68 35   | 69 56   | 91 69   | 88 61   | 95 65   | 71 50   | 60 44   | 70 56   | 27 20   | 39 20   |                           |  |
| 29                                     | 43 24   |         | 58 46   | 67 51   | 82 65   | 98 67   | 85 57   | 69 52   | 78 37   | 67 55   | 23 20   | 32 22   |                           |  |
| 30                                     | 52 32   |         | 68 34   | 72 41   | 85 60   | 89 63   | 88 51   | 80 50   | 58 34   | 62 46   | 26 23   | 34 20   |                           |  |
| 31                                     | 20 9    |         | 74 44   |         | 72 50   |         | 85 59   | 61 50   |         | 62 49   |         | 31 24   |                           |  |
| AV.                                    | 24 10   | 36 19   | 51 27   | 64 41   | 72 52   | 84 60   | 94 67   | 78 58   | 72 47   | 66 44   | 47 30   | 33 19   |                           |  |
| MEAN                                   | 17.2    | 27.5    | 39.4    | 52.5    | 62.4    | 71.8    | 80.5    | 68.0    | 59.6    | 55.4    | 38.7    | 25.9    |                           |  |
| STA AV                                 | 28 11   | 34 16   | 47 25   | 61 38   | 73 51   | 82 60   | 87 65   | 82 61   | 74 52   | 64 42   | 46 28   | 32 18   |                           |  |

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 10 yr record period.



| 1974 DAILY PRECIPITATION (inches) TREYNOR, IOWA WATERSHED 3 |      |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Day   | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.38 | 0.45 | 0.0  | 0.0  | 0.0  |
| 2   | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  | 0.0  | 0.0  |
| 3   | 0.0  | 0.0  | 0.0  | 0.20 | 0.04 | 0.21 | 0.17 | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  |
| 4   | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5   | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.22 | 0.0  | 0.0  |
| 6   | 0.02 | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.18 |
| 7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8   | 0.04 | 0.0  | 0.03 | 0.0  | 0.0  | 0.38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.79 | 0.0  | 0.0  | 0.80 | 0.0  |
| 10  | 0.04 | 0.0  | 0.0  | 0.0  | 0.76 | 0.0  | 0.14 | 0.31 | 0.0  | 0.0  | 0.04 | 0.0  |
| 11  | 0.0  | 0.0  | 0.27 | 0.64 | 0.01 | 0.09 | 0.0  | 0.0  | 0.02 | 0.05 | 0.0  | 0.0  |
| 12  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.90 | 0.0  | 0.0  | 0.0  |
| 13  | 0.0  | 0.0  | 0.0  | 0.01 | 0.69 | 0.0  | 0.0  | 1.79 | 0.0  | 0.04 | 0.0  | 0.0  |
| 14  | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.0  | 0.28 |
| 15  | 0.0  | 0.0  | 0.13 | 0.39 | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.09 |
| 16  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.93 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.96 | 0.0  | 0.0  | 0.0  | 0.0  |
| 18  | 0.0  | 0.0  | 0.0  | 0.0  | 0.74 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 |
| 19  | 0.0  | 0.0  | 0.0  | 0.0  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 20  | 0.0  | 0.0  | 0.12 | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21  | 0.0  | 0.12 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |
| 22  | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 24  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  |
| 25  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.09 |
| 27  | 0.0  | 0.0  | 0.0  | 0.35 | 0.26 | 0.0  | 0.04 | 0.36 | 0.0  | 0.0  | 0.0  | 0.0  |
| 28  | 0.0  | 0.0  | 0.0  | 0.71 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  |
| 29  | 0.0  | 0.0  | 0.05 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.06 | 0.0  |
| 30  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.85 | 0.0  | 1.44 | 0.06 | 0.0  |
| 31  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.04 | 0.0  | 0.05 | 0.0  | 0.0  |
| TOTAL   | 0.34 | 0.12 | 0.98 | 2.63 | 3.71 | 0.93 | 0.37 | 6.73 | 1.43 | 2.82 | 1.24 | 0.66 |
| STA AV  | 0.56 | 0.55 | 1.24 | 3.23 | 4.82 | 5.18 | 3.48 | 3.24 | 4.45 | 3.11 | 1.34 | 0.95 |

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 5; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV based on 11 yr record period.

| 1974 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 3 |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.058  | 0.131  | 0.163  | 0.147  | 0.147  | 0.171  | 0.128  | 0.085  | 0.069  | 0.055  | 0.064  | 0.064  |
| 2   | 0.116  | 0.132  | 0.163  | 0.147  | 0.147  | 0.171  | 0.126  | 0.079  | 0.069  | 0.055  | 0.064  | 0.059  |
| 3   | 0.111  | 0.132  | 0.163  | 0.148  | 0.155  | 0.172  | 0.131  | 0.078  | 0.059  | 0.055  | 0.065  | 0.055  |
| 4   | 0.105  | 0.132  | 0.163  | 0.147  | 0.156  | 0.163  | 0.126  | 0.077  | 0.060  | 0.055  | 0.064  | 0.062  |
| 5   | 0.099  | 0.132  | 0.163  | 0.147  | 0.156  | 0.163  | 0.125  | 0.074  | 0.061  | 0.057  | 0.063  | 0.064  |
| 6   | 0.094  | 0.131  | 0.163  | 0.147  | 0.156  | 0.172  | 0.124  | 0.079  | 0.063  | 0.070  | 0.064  | 0.063  |
| 7   | 0.094  | 0.132  | 0.163  | 0.147  | 0.158  | 0.169  | 0.124  | 0.079  | 0.061  | 0.058  | 0.064  | 0.061  |
| 8   | 0.094  | 0.132  | 0.163  | 0.139  | 0.163  | 0.167  | 0.116  | 0.079  | 0.063  | 0.055  | 0.063  | 0.055  |
| 9   | 0.099  | 0.132  | 0.163  | 0.131  | 0.154  | 0.165  | 0.111  | 0.090  | 0.0    | 0.055  | 0.074  | 0.055  |
| 10  | 0.104  | 0.132  | 0.163  | 0.140  | 0.169  | 0.163  | 0.119  | 0.080  | 0.141  | 0.055  | 0.063  | 0.055  |
| 11  | 0.105  | 0.135  | 0.163  | 0.164  | 0.155  | 0.164  | 0.113  | 0.079  | 0.063  | 0.059  | 0.064  | 0.059  |
| 12  | 0.105  | 0.139  | 0.147  | 0.163  | 0.154  | 0.163  | 0.111  | 0.075  | 0.077  | 0.064  | 0.064  | 0.063  |
| 13  | 0.105  | 0.147  | 0.147  | 0.153  | 0.165  | 0.163  | 0.111  | 0.097  | 0.063  | 0.063  | 0.063  | 0.064  |
| 14  | 0.105  | 0.147  | 0.147  | 0.154  | 0.150  | 0.156  | 0.106  | 0.070  | 0.061  | 0.064  | 0.064  | 0.064  |
| 15  | 0.110  | 0.147  | 0.154  | 0.160  | 0.147  | 0.155  | 0.100  | 0.072  | 0.060  | 0.064  | 0.063  | 0.063  |
| 16  | 0.124  | 0.147  | 0.147  | 0.156  | 0.147  | 0.156  | 0.100  | 0.081  | 0.061  | 0.063  | 0.064  | 0.059  |
| 17  | 0.132  | 0.147  | 0.147  | 0.156  | 0.147  | 0.158  | 0.100  | 0.090  | 0.060  | 0.064  | 0.064  | 0.055  |
| 18  | 0.131  | 0.147  | 0.147  | 0.160  | 0.205  | 0.156  | 0.099  | 0.075  | 0.061  | 0.063  | 0.063  | 0.055  |
| 19  | 0.132  | 0.147  | 0.155  | 0.160  | 0.284  | 0.155  | 0.099  | 0.070  | 0.060  | 0.064  | 0.064  | 0.055  |
| 20  | 0.132  | 0.147  | 0.163  | 0.165  | 0.163  | 0.154  | 0.100  | 0.068  | 0.061  | 0.058  | 0.063  | 0.055  |
| 21  | 0.132  | 0.158  | 0.163  | 0.160  | 0.164  | 0.154  | 0.099  | 0.073  | 0.061  | 0.063  | 0.064  | 0.055  |
| 22  | 0.132  | 0.163  | 0.168  | 0.152  | 0.163  | 0.154  | 0.089  | 0.070  | 0.064  | 0.058  | 0.064  | 0.060  |
| 23  | 0.131  | 0.155  | 0.163  | 0.153  | 0.165  | 0.147  | 0.089  | 0.070  | 0.063  | 0.055  | 0.063  | 0.055  |
| 24  | 0.132  | 0.147  | 0.163  | 0.153  | 0.171  | 0.147  | 0.089  | 0.069  | 0.064  | 0.055  | 0.064  | 0.055  |
| 25  | 0.132  | 0.147  | 0.155  | 0.147  | 0.172  | 0.140  | 0.090  | 0.069  | 0.060  | 0.055  | 0.063  | 0.055  |
| 26  | 0.132  | 0.155  | 0.147  | 0.147  | 0.180  | 0.140  | 0.089  | 0.068  | 0.061  | 0.055  | 0.064  | 0.055  |
| 27  | 0.131  | 0.163  | 0.147  | 0.154  | 0.177  | 0.141  | 0.084  | 0.068  | 0.061  | 0.055  | 0.064  | 0.055  |
| 28  | 0.132  | 0.163  | 0.147  | 0.160  | 0.173  | 0.140  | 0.079  | 0.061  | 0.061  | 0.063  | 0.063  | 0.055  |
| 29  | 0.132  | 0.147  | 0.147  | 0.155  | 0.171  | 0.140  | 0.079  | 0.063  | 0.061  | 0.063  | 0.064  | 0.055  |
| 30  | 0.134  | 0.147  | 0.147  | 0.147  | 0.173  | 0.138  | 0.078  | 0.075  | 0.057  | 0.083  | 0.063  | 0.055  |
| 31  | 0.132  | 0.147  | 0.147  | 0.147  | 0.172  | 0.138  | 0.079  | 0.064  | 0.063  | 0.063  | 0.063  | 0.055  |
| MEAN  | 0.1163 | 0.1434 | 0.1560 | 0.1519 | 0.1663 | 0.1565 | 0.1037 | 0.0751 | 0.0629 | 0.0602 | 0.0640 | 0.0579 |
| INCHES  | 0.802  | 0.893  | 1.076  | 1.014  | 1.147  | 1.044  | 0.715  | 0.518  | 0.420  | 0.415  | 0.427  | 0.400  |
| STA AV  | 0.375  | 0.608  | 0.638  | 0.483  | 0.670  | 0.879  | 0.531  | 0.364  | 0.350  | 0.418  | 0.383  | 0.389  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.22245. STA AV based on 11 yr record period.

## TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 150.00 acres

| MONTHLY PRECIPITATION AND RUNOFF (inches)   |   |                        |             |              |              |               |            |             |             |   |       |          | TREYNOR, IOWA WATERSHED 4 |                               |
|---|---|------------------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|---|-------|----------|---------------------------|-------------------------------|
|   |   | Jan                    | Feb         | Mar          | Apr          | May           | Jun        | Jul         | Aug         | Sep                                       | Oct   | Nov      | Dec                       | Annual                        |
| 1974  | P | 0.29                   | 0.14        | 0.96         | 2.39         | 3.54          | 0.89       | 0.42        | 6.50        | 1.37                                      | 2.74  | 1.23     | 0.69                      | 21.16                         |
|   | Q | 0.786                  | 0.830       | 0.916        | 0.731        | 0.922         | 0.695      | 0.566       | 0.577       | 0.429                                     | 0.419 | 0.400    | 0.385                     | 7.654                         |
| STA AV  | P | 0.54                   | 0.54        | 1.23         | 3.21         | 4.79          | 5.26       | 3.52        | 3.23        | 4.68                                      | 3.20  | 1.31     | 0.93                      | 32.44                         |
|   | Q | 0.503                  | 0.516       | 0.674        | 0.579        | 0.965         | 1.061      | 0.832       | 0.557       | 0.622                                     | 0.594 | 0.538    | 0.530                     | 7.972                         |
| ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS |   |                        |             |              |              |               |            |             |             |   |       |          |                           |                               |
|   |   | Maximum Discharge Date | 1 Hour Date | 2 Hours Date | 6 Hours Date | 12 Hours Date | 1 Day Date | 2 Days Date | 8 Days Date | Maximum Volume for Selected Time Interval |       |          |                           |                               |
|   |   |                        | Vol.        | Vol.         | Vol.         | Vol.          | Vol.       | Vol.        | Vol.        |   |       |          |                           |                               |
| 1974  |   | 5-19                   | 0.067       | 5-19         | 0.039        | 5-19          | 0.063      | 5-19        | 0.104       | 5-19                                      | 0.117 | 5-19     | 0.135                     | 5-18 0.176 5-18 0.349         |
| MAXIMUMS FOR PERIOD OF RECORD   |   |                        |             |              |              |               |            |             |             |   |       |          |                           |                               |
|   |   | 6-7 1972               | 0.607       | 6-7 1972     | 0.179        | 5-10 1971     | 0.289      | 5-5 1972    | 0.563       | 5-5 1972                                  | 0.676 | 5-5 1972 | 1.036                     | 5-5 1972 1.316 5-5 1972 1.743 |

NOTES: Watershed conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace backslopes; 1% gully. Precipitation from rain gage 113 before April 1 and after November 5; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 27, 1964. January 1 to February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p.71-4-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

| 1974 DAILY PRECIPITATION (inches) |      |      |      |      |      |      |      |      |      |      |      |      | TREYNOR, IOWA WATERSHED 4 |  |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------|--|
| Day                               | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |                           |  |
| 1                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.25 | 0.42 | 0.0  | 0.0  | 0.0  |                           |  |
| 2                                 | 0.14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  | 0.0  | 0.0  |                           |  |
| 3                                 | 0.0  | 0.01 | 0.0  | 0.15 | 0.04 | 0.16 | 0.18 | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  |                           |  |
| 4                                 | 0.0  | 0.0  | 0.25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 5                                 | 0.06 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.24 | 0.0  | 0.0  |                           |  |
| 6                                 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.17 | 0.0  | 0.0  | 0.0  | 0.80 | 0.0  | 0.20 |                           |  |
| 7                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.14 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 8                                 | 0.04 | 0.0  | 0.02 | 0.0  | 0.0  | 0.39 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 9                                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.07 | 0.0  | 0.89 | 0.0  | 0.0  | 0.80 | 0.0  |                           |  |
| 10                                | 0.04 | 0.0  | 0.0  | 0.0  | 0.75 | 0.0  | 0.16 | 0.29 | 0.0  | 0.0  | 0.04 | 0.0  |                           |  |
| 11                                | 0.0  | 0.0  | 0.26 | 0.54 | 0.02 | 0.09 | 0.0  | 0.0  | 0.02 | 0.05 | 0.0  | 0.0  |                           |  |
| 12                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  | 0.0  |                           |  |
| 13                                | 0.0  | 0.0  | 0.0  | 0.01 | 0.50 | 0.0  | 0.0  | 1.78 | 0.0  | 0.04 | 0.0  | 0.0  |                           |  |
| 14                                | 0.0  | 0.0  | 0.0  | 0.18 | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.0  | 0.24 |                           |  |
| 15                                | 0.0  | 0.0  | 0.14 | 0.39 | 0.0  | 0.0  | 0.0  | 0.20 | 0.0  | 0.0  | 0.0  | 0.11 |                           |  |
| 16                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 | 0.0  | 0.0  | 0.91 | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 17                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.12 | 0.0  | 0.0  | 0.89 | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 18                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.72 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.03 |                           |  |
| 19                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 20                                | 0.0  | 0.0  | 0.11 | 0.11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 21                                | 0.0  | 0.13 | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.10 | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 22                                | 0.0  | 0.0  | 0.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 23                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 24                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  |                           |  |
| 25                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.08 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 26                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.11 |                           |  |
| 27                                | 0.0  | 0.0  | 0.0  | 0.34 | 0.26 | 0.0  | 0.04 | 0.30 | 0.0  | 0.0  | 0.0  | 0.0  |                           |  |
| 28                                | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.26 | 0.0  | 0.0  |                           |  |
| 29                                | 0.0  | 0.0  | 0.05 | 0.01 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.05 | 0.0  |                           |  |
| 30                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.02 | 0.0  | 0.0  | 0.83 | 0.0  | 1.29 | 0.05 | 0.0  |                           |  |
| 31                                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 | 0.0  | 0.0  |                           |  |
| TOTAL                             | 0.29 | 0.14 | 0.96 | 2.39 | 3.54 | 0.89 | 0.42 | 6.50 | 1.37 | 2.74 | 1.23 | 0.69 |                           |  |
| STA AV                            | 0.54 | 0.54 | 1.23 | 3.21 | 4.79 | 5.26 | 3.52 | 3.23 | 4.68 | 3.20 | 1.31 | 0.93 |                           |  |

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 5, and from 113 for remainder of year. STA AV based on 11 yr record period.

| 1974 MEAN DAILY DISCHARGE (cfs) TREYHOB, IOWA WATERSHED 4 |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Day   | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
| 1   | 0.082  | 0.197  | 0.197  | 0.163  | 0.154  | 0.164  | 0.132  | 0.117  | 0.115  | 0.076  | 0.083  | 0.083  |
| 2   | 0.163  | 0.197  | 0.197  | 0.164  | 0.153  | 0.164  | 0.124  | 0.113  | 0.107  | 0.072  | 0.083  | 0.083  |
| 3   | 0.163  | 0.197  | 0.197  | 0.163  | 0.147  | 0.175  | 0.129  | 0.110  | 0.100  | 0.072  | 0.084  | 0.077  |
| 4   | 0.163  | 0.197  | 0.197  | 0.163  | 0.146  | 0.163  | 0.126  | 0.104  | 0.093  | 0.072  | 0.083  | 0.072  |
| 5   | 0.163  | 0.187  | 0.197  | 0.155  | 0.147  | 0.159  | 0.125  | 0.105  | 0.094  | 0.081  | 0.083  | 0.072  |
| 6   | 0.164  | 0.179  | 0.197  | 0.147  | 0.147  | 0.163  | 0.125  | 0.105  | 0.094  | 0.112  | 0.083  | 0.082  |
| 7   | 0.163  | 0.178  | 0.197  | 0.146  | 0.147  | 0.150  | 0.123  | 0.104  | 0.094  | 0.083  | 0.083  | 0.077  |
| 8   | 0.163  | 0.178  | 0.197  | 0.147  | 0.146  | 0.161  | 0.117  | 0.105  | 0.094  | 0.083  | 0.083  | 0.080  |
| 9   | 0.163  | 0.171  | 0.197  | 0.147  | 0.147  | 0.168  | 0.116  | 0.113  | 0.086  | 0.083  | 0.095  | 0.083  |
| 10  | 0.163  | 0.163  | 0.197  | 0.147  | 0.156  | 0.149  | 0.128  | 0.107  | 0.084  | 0.083  | 0.094  | 0.078  |
| 11  | 0.164  | 0.171  | 0.199  | 0.162  | 0.151  | 0.148  | 0.120  | 0.100  | 0.083  | 0.083  | 0.088  | 0.073  |
| 12  | 0.163  | 0.219  | 0.197  | 0.148  | 0.147  | 0.147  | 0.117  | 0.101  | 0.115  | 0.083  | 0.083  | 0.072  |
| 13  | 0.163  | 0.188  | 0.197  | 0.147  | 0.168  | 0.146  | 0.117  | 0.141  | 0.094  | 0.083  | 0.083  | 0.072  |
| 14  | 0.155  | 0.178  | 0.197  | 0.149  | 0.151  | 0.147  | 0.116  | 0.105  | 0.093  | 0.083  | 0.083  | 0.072  |
| 15  | 0.147  | 0.178  | 0.197  | 0.164  | 0.147  | 0.137  | 0.117  | 0.107  | 0.094  | 0.083  | 0.083  | 0.078  |
| 16  | 0.147  | 0.181  | 0.197  | 0.158  | 0.147  | 0.147  | 0.112  | 0.162  | 0.094  | 0.083  | 0.083  | 0.080  |
| 17  | 0.146  | 0.216  | 0.197  | 0.154  | 0.141  | 0.147  | 0.112  | 0.332  | 0.090  | 0.083  | 0.083  | 0.072  |
| 18  | 0.147  | 0.188  | 0.188  | 0.147  | 0.254  | 0.142  | 0.111  | 0.110  | 0.089  | 0.083  | 0.083  | 0.072  |
| 19  | 0.147  | 0.178  | 0.178  | 0.146  | 0.824  | 0.141  | 0.110  | 0.105  | 0.083  | 0.083  | 0.083  | 0.072  |
| 20  | 0.147  | 0.178  | 0.178  | 0.152  | 0.216  | 0.140  | 0.111  | 0.101  | 0.083  | 0.083  | 0.083  | 0.079  |
| 21  | 0.147  | 0.187  | 0.178  | 0.151  | 0.197  | 0.139  | 0.110  | 0.104  | 0.083  | 0.083  | 0.083  | 0.073  |
| 22  | 0.146  | 0.197  | 0.178  | 0.146  | 0.187  | 0.132  | 0.105  | 0.101  | 0.083  | 0.083  | 0.083  | 0.079  |
| 23  | 0.147  | 0.188  | 0.179  | 0.147  | 0.178  | 0.132  | 0.104  | 0.101  | 0.083  | 0.083  | 0.083  | 0.081  |
| 24  | 0.147  | 0.178  | 0.178  | 0.147  | 0.178  | 0.131  | 0.101  | 0.100  | 0.083  | 0.083  | 0.083  | 0.083  |
| 25  | 0.166  | 0.178  | 0.178  | 0.147  | 0.179  | 0.132  | 0.110  | 0.098  | 0.083  | 0.083  | 0.083  | 0.083  |
| 26  | 0.163  | 0.183  | 0.171  | 0.147  | 0.181  | 0.132  | 0.112  | 0.094  | 0.083  | 0.083  | 0.083  | 0.083  |
| 27  | 0.163  | 0.202  | 0.163  | 0.151  | 0.179  | 0.132  | 0.112  | 0.097  | 0.083  | 0.083  | 0.083  | 0.083  |
| 28  | 0.163  | 0.197  | 0.164  | 0.181  | 0.175  | 0.132  | 0.111  | 0.093  | 0.079  | 0.084  | 0.083  | 0.083  |
| 29  | 0.183  |        | 0.163  | 0.163  | 0.174  | 0.131  | 0.108  | 0.094  | 0.079  | 0.078  | 0.083  | 0.083  |
| 30  | 0.239  |        | 0.163  | 0.156  | 0.178  | 0.132  | 0.104  | 0.205  | 0.081  | 0.151  | 0.083  | 0.083  |
| 31  | 0.209  |        | 0.163  |        | 0.167  |        | 0.105  | 0.104  |        | 0.091  |        | 0.081  |
| MEAN  | 0.1597 | 0.1868 | 0.1861 | 0.1535 | 0.1874 | 0.1460 | 0.1150 | 0.1173 | 0.0900 | 0.0851 | 0.0841 | 0.0783 |
| INCRS   | 0.786  | 0.830  | 0.916  | 0.731  | 0.922  | 0.695  | 0.566  | 0.577  | 0.429  | 0.419  | 0.400  | 0.385  |
| STA AV  | 0.503  | 0.516  | 0.674  | 0.579  | 0.965  | 1.061  | 0.832  | 0.557  | 0.622  | 0.594  | 0.538  | 0.530  |

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV based on 11 yr record period.











